


**THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION**

This approval is for technical review only.
For permit information, contact Jay Childs,
Construction Supervisor at (301) 495-2574



*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.



QA	SHADE TREE
1	



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

GOOD HOPE ROAD
SHARED USE PATH

0 30' 60'

SCALE: 1"=30'

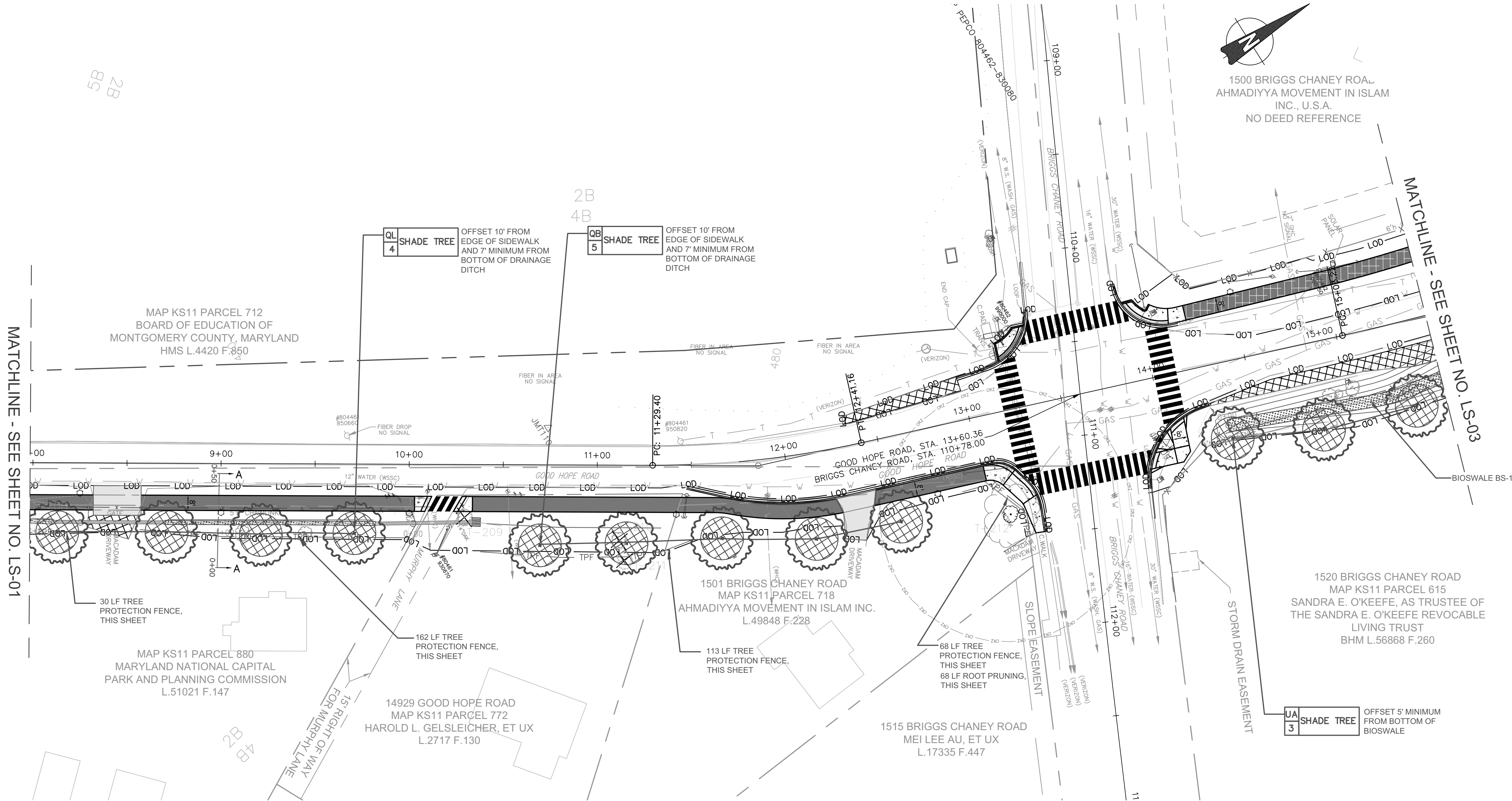
DATUM: NAD 83(2011) HORIZ
NAVD 88 VERT

DATE: DECEMBER 2021

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION
DATE APPROVED 12/14/2021

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LANDSCAPE PLANT SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREES						
*UA	3	ULMUS AMERICANA 'JEFFERSON'	AMERICAN ELM 'JEFFERSON'	2.5" CAL.	B&B	50' O.C., AS SHOWN
*QB	5	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	B&B	50' O.C., AS SHOWN
*QL	4	QUERCUS LYRATA	OVERCUP OAK	2.5" CAL.	B&B	50' O.C., AS SHOWN

- NOTE:
- REFER TO SIGNING AND STRIPING PLAN FOR PAVEMENT MARKING DETAILS.
 - CONTRACTOR SHALL FIELD ADJUST GRADING TO PROVIDE SMOOTH TRANSITIONS INTO EXISTING FEATURES AND PROMOTE SHEET FLOW WHERE POSSIBLE. ALL GRADING CHANGES TO BE PRE-APPROVED BY COUNTY INSPECTOR.
 - INSTALL SHRUB DEER PROTECTION DEVICES AS PER DETAIL. PROTECTION SHALL BE PROVIDED FOR EACH GROUP OF 4 SHRUBS, MAXIMUM.
 - INSTALL TREE DEER PROTECTION DEVICES AS PER DETAIL.
 - UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS SHALL BE STABILIZED WITH:
 - 4" OF TOPSOIL
 - TURFGRASS SEED MIX
 - 20% VIRGINIA WILD RYE
 - 20% RIPARIAN WILD RYE
 - 20% DEER TONGUE
 - 20% CREEPING RED FESCUE
 - 20% ANNUAL RYE
 - MULCH
 - REFER TO PLAN SHEET LS-09 FOR SPECIFIC NOTES PERTAINING TO TREE PRESERVATION, INVASIVE SPECIES, INSPECTIONS, AND TREE CANOPY INFORMATION.
 - PLEASE SEE SHEET LS-07 FOR TREE PLANTING DETAIL.
 - PLEASE SEE SHEET LS-09 FOR STANDARD TREE CANOPY NOTES.

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

LEGEND

SDP

LOD

TPF

SHRUB DEER PROTECTION FENCE

LIMIT OF DISTURBANCE

LIMIT OF GRADING

TREE PROTECTION FENCE

QA 1

SHADE TREE

SHADE TREE (CROSSHATCH AREA SHOWN IS 400SF GROWING ZONE PER EXECUTIVE REGULATION 22-13)

TREE TO BE REMOVED

BIOSWALE BOTTOMS SHALL BE SEEDED WITH MDOT SHA'S BIORETENTION SOIL MIX MEADOW ESTABLISHMENT, SEE SPECIFICATIONS FOR APPLICATION RATES.

FORBS

GRASSES

BLACKEYED SUSAN

SWITCHGRASS

PARTRIDGE PEA

DEERTONGUE

RED CLOVER

HARD FESCUE

WEEPING ALKALIGRASS

PURPLETOP

VIRGINIA WILD RYE

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
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MANPPC PERMIT NO. 2020-034

PARK: J33

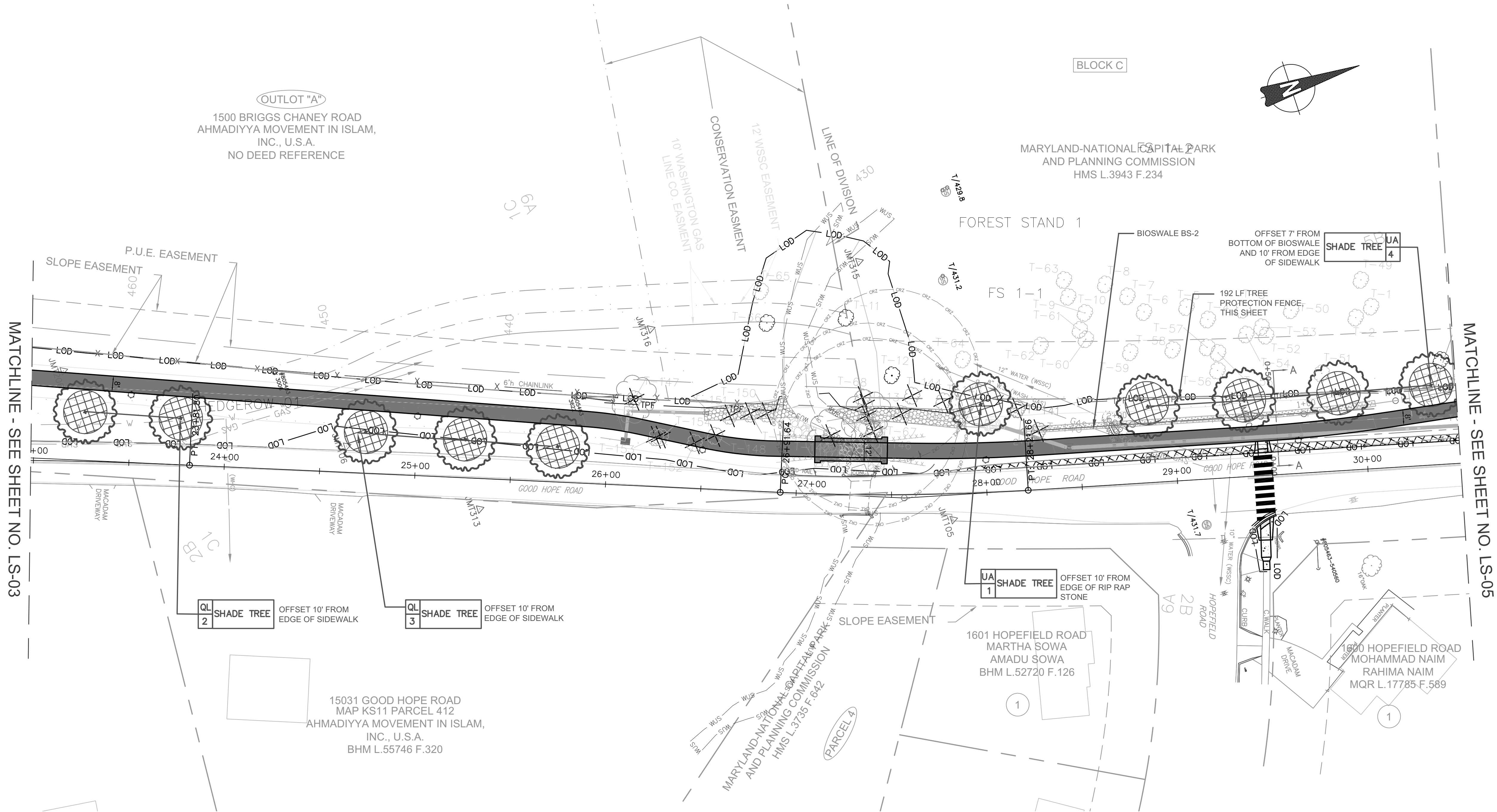
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FORBS	GRASSES
BLACKKEYED SUSAN	SWITCHGRASS
PARTRIDGE PEA	DEERTONGUE
RED CLOVER	HARD FESCUE
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	PURPLETOP
	VIRGINIA WILD RYE

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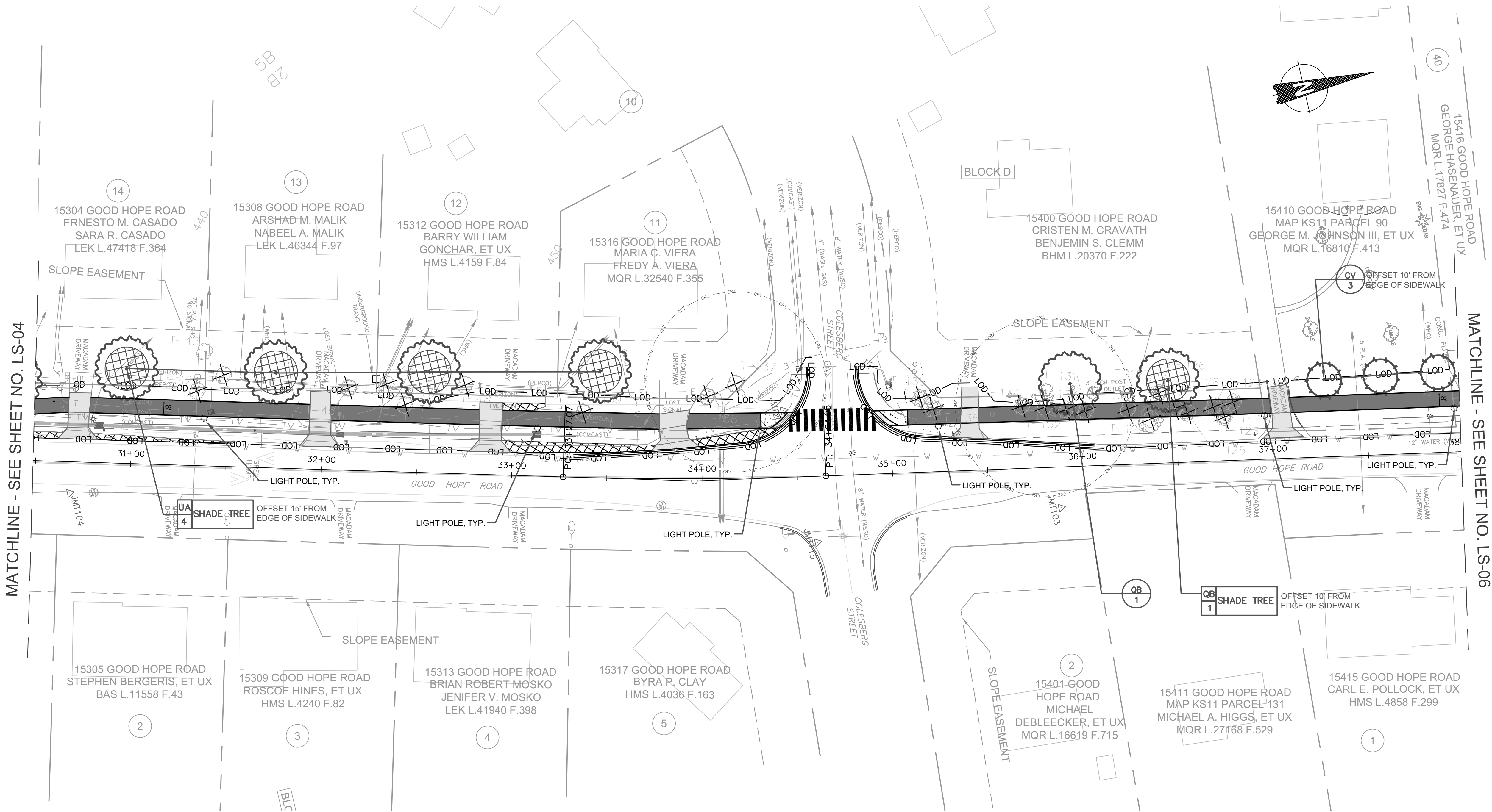


<table><tr><td>NO.</td><td>REVISION</td><td>DATE</td><td>BY</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	NO.	REVISION	DATE	BY													MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		LS-04 LANDSCAPE PLAN	
NO.	REVISION	DATE	BY																	
RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES		GOOD HOPE ROAD SHARED USE PATH																		
Chief, Design Section APPROVED		DATE																		
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Chief, Division of Transportation Engineering		DATE		DUTUM: NAD 83(2011) HORIZ NAVD 88 VERT SCALE: 1"=30' DATE: DECEMBER 2021																
Designed by: <u>SBD</u> Drawn by: <u>SBD</u> Checked by: <u>SJR</u>		Project No.: <u>501902</u>																		
		SHEET <u>81</u> of <u>135</u>																		

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
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M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
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PARK J33

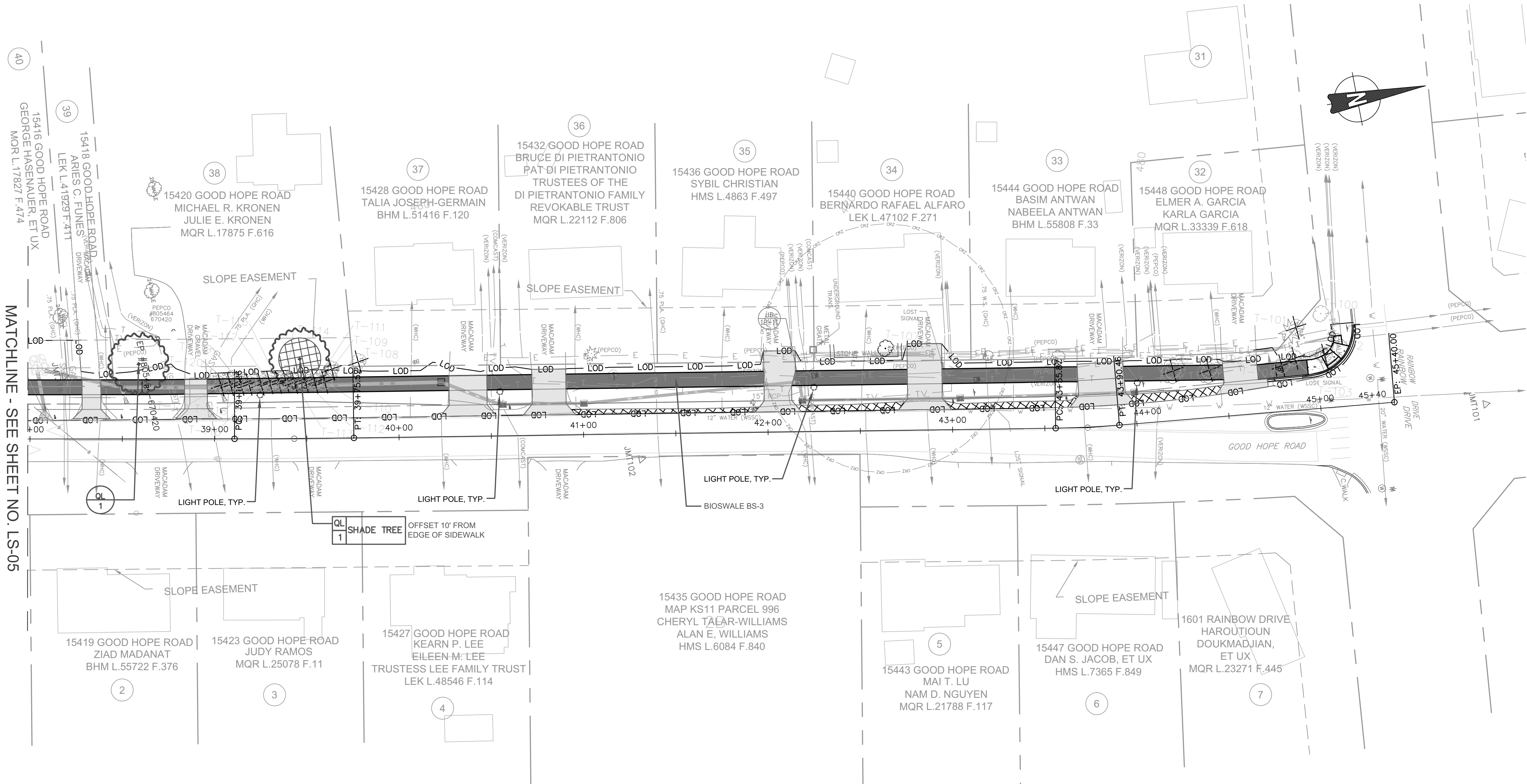
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- NOTE:
- TREATMENT A: TREE TO REMAIN.
 - TREATMENT B: REMOVE TREE INCLUDING STUMP.
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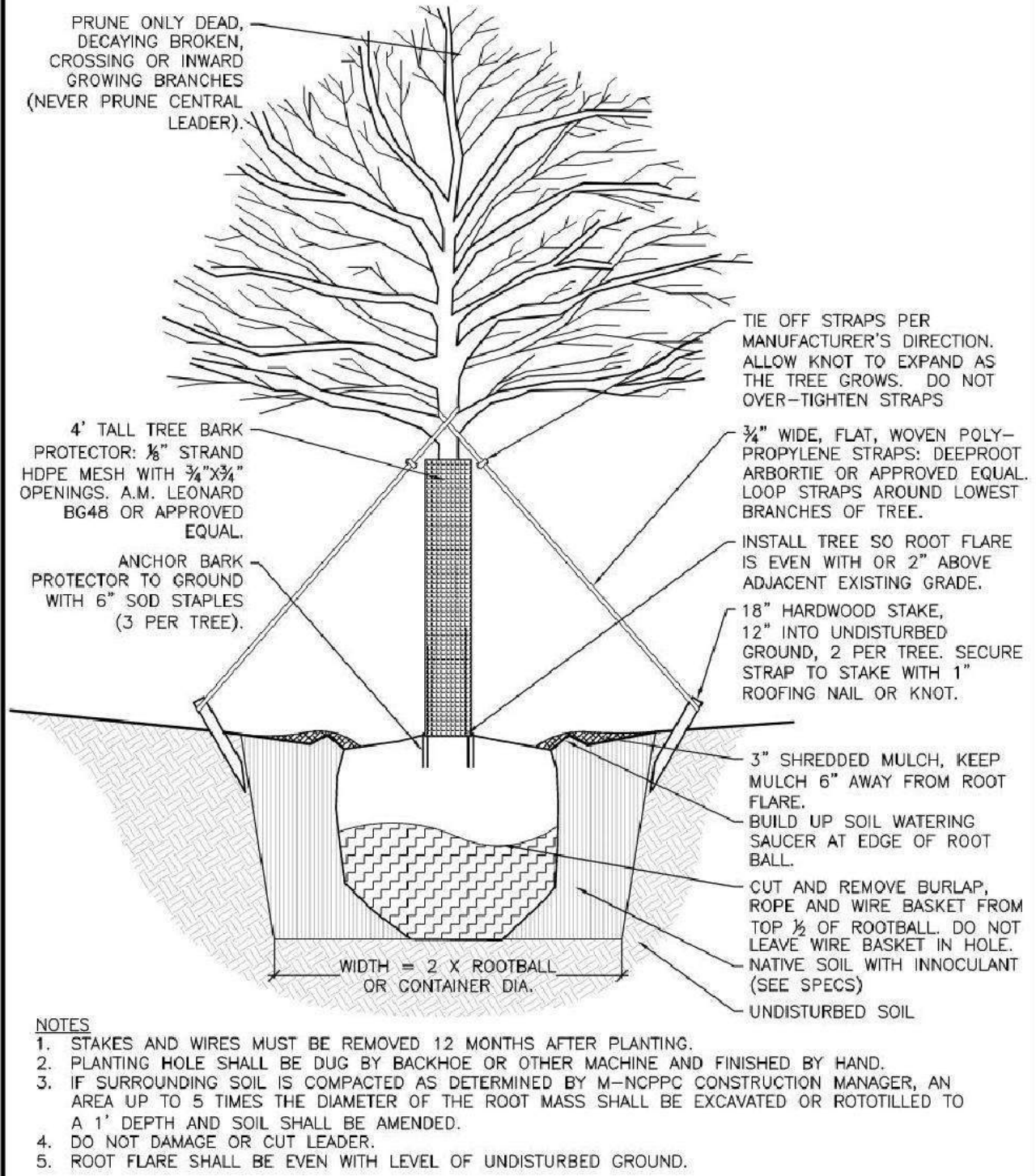
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				LS-06 LANDSCAPE PLAN	
RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES				GOOD HOPE ROAD SHARED USE PATH	
Chief, Design Section				DATE	
APPROVED				REFER TO TITLE SHEET FOR SIGNATURES	
Chief, Division of Transportation Engineering				DATE	
Designed by: SBD				Drawn by: SBD	
Checked by: SJR				Project No.: 501902	
				SHEET 83 of 135	

DATUM: NAD 83(2011) HORIZ
NAVD 88 VERT

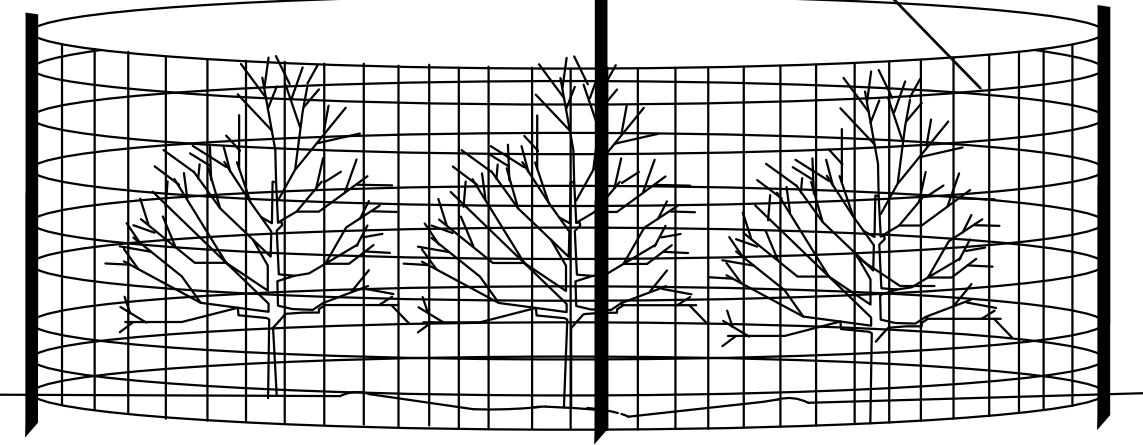
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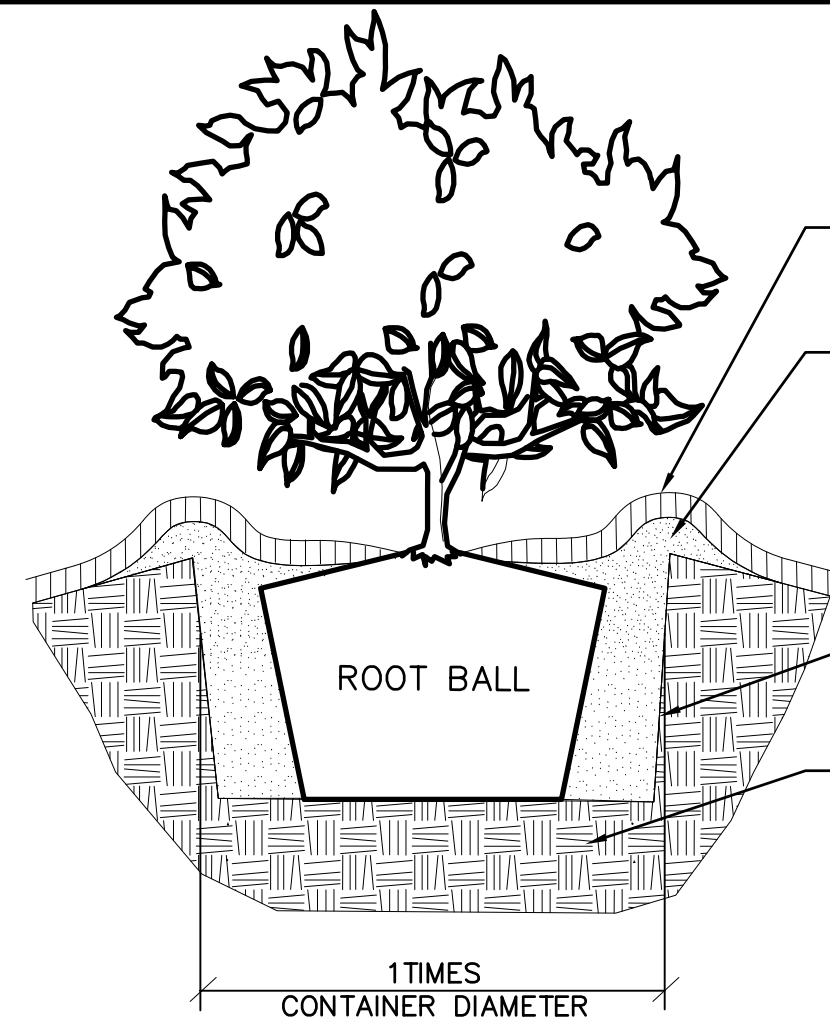
DECIDUOUS PLANTS - (2 1/2\" Caliper or Larger)
The Maryland-National Capital Park and Planning Commission
Montgomery County Department of Parks
Detail No. ?
SEPTEMBER 2012

NO. 14 GAUGE WIRE FABRIC WITH 2\" x 4\" OPENINGS AROUND INDIVIDUAL TREES AND SHRUBS OR SHRUB BED AND FASTEN TO STAKES.
6\" HARDWOOD GUYING STAKE 2' INTO THE GROUND WITH A MINIMUM OF 2 STAKES PER CAGE.



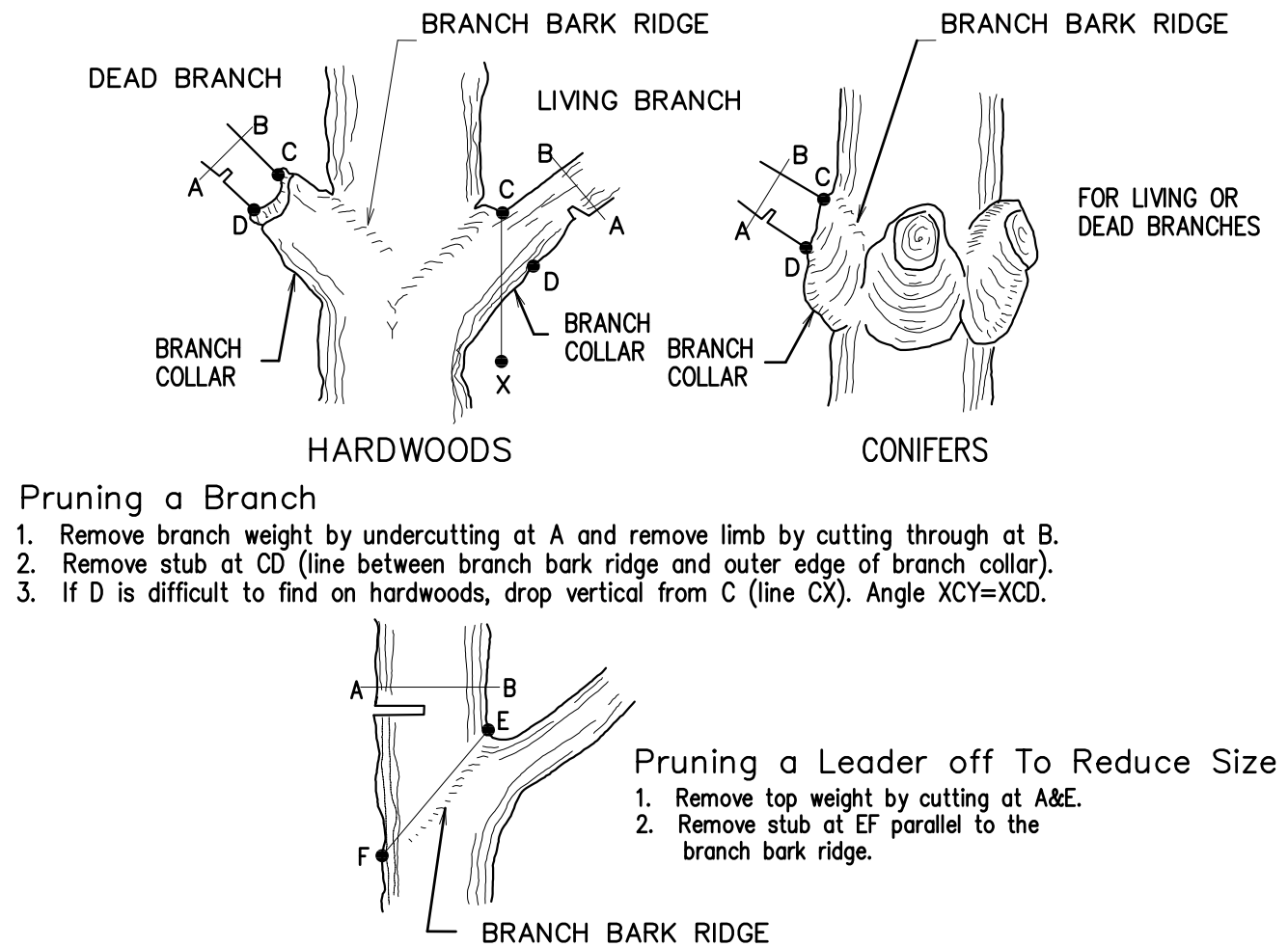
- NOTES:
1. THIS DETAIL IS TO BE USED FOR INDIVIDUAL SHRUBS AND SHRUB BEDS. IN ADDITION, IT WILL BE USED FOR EVERGREEN TREES OR DECIDUOUS TREES WITH BRANCHES LOWER THAN 4' IN HEIGHT.
 2. HEIGHT OF CAGE SHALL BE 4 FEET MINIMUM WITH A MAXIMUM DIAMETER OF 10 FEET.
 3. CAGE SHALL BE FASTENED TO STAKE WITH 3 (MIN.) TWIST TIE EVENLY SPACED WITH A 6\" (MIN.) ABOVE THE GROUND.
 4. CAGE SHALL SURROUND ALL SHRUBS AND TREES WITH A 1 FOOT SPACING FROM THE OUTSIDE OF THE PLANT.
 5. STAKES SHALL BE PLACED AT A MAXIMUM 5 FOOT SPACING.
 6. CAGES TO BE REMOVED AT DIRECTION OF M-NCPPC CONSTRUCTION MANAGER.
 7. HARDWOOD MULCH SHALL BE PLACED TO 2-3 INCH DEPTH WITHIN FENCING.

SHRUB DEER PROTECTION
NOT TO SCALE



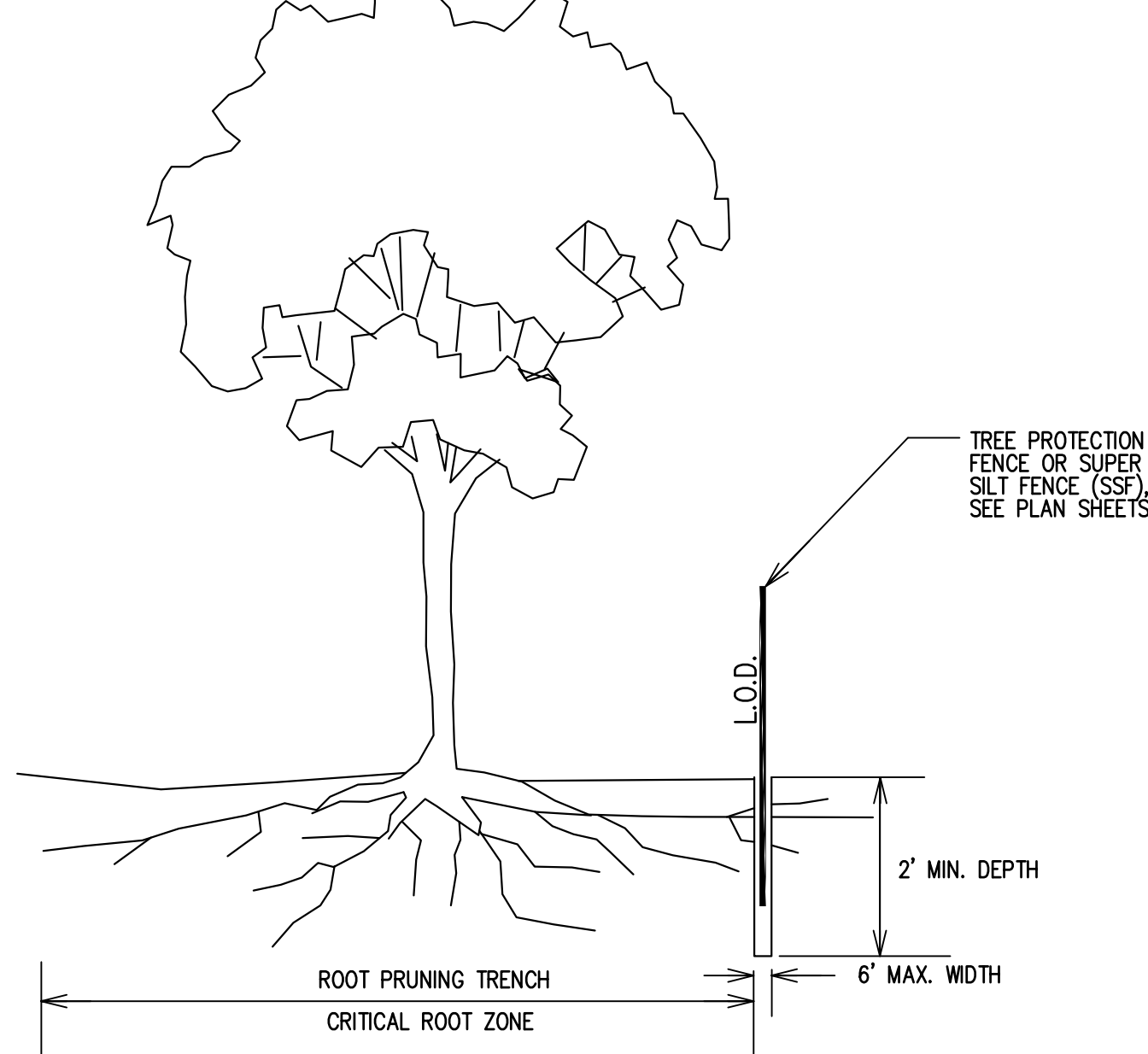
- NOTE: LOCATIONS AND SIZES OF PLANTING PITS MAY BE ADJUSTED IN THE FIELD TO PROTECT THE ROOTS OF EXISTING TREES TO REMAIN.
- 3\" DEPTH— SHREDDED HARDWOOD BARK MULCH. DO NOT PLACE MULCH AGAINST THE SHRUB STEM.
- 4\" MIN. SOIL BERM
- ALL SOIL SHALL BE EXCAVATED FROM THE PIT, MIXED WITH APPROVED AMENDMENTS, AND USED AS BACKFILL DURING INSTALLATION OF THE SHRUB. ROOT BALL SHALL BE PLACED ON TAMPED OR UNEXCAVATED SOIL.
- SCARIFY SIDE WALLS OF EXCAVATION BEFORE PLANTING
- COMPACTED SUBGRADE; CONTRACTOR TO SCARIFY TOP 6\" OF SOIL TO IMPROVE DRAINAGE
- COMPLETELY REMOVE CONTAINER AND SCARIFY ROOT BALL
- DO NOT ALLOW ROOTS TO DRY OUT DURING INSTALLATION PROCESS AND DEEPLY WATER AFTER PLANTING.

SHRUB PLANTING DETAIL
NOT TO SCALE



- Pruning a Branch
1. Remove branch weight by undercutting at A and remove limb by cutting through at B.
 2. Remove stub at CD (line between branch bark ridge and outer edge of branch collar).
 3. If D is difficult to find on hardwoods, drop vertical from C (line CX). Angle XCY=XCD.
- Pruning a Leader off To Reduce Size
1. Remove top weight by cutting at A&E.
 2. Remove stub at EF parallel to the branch bark ridge.
- Medium pruning shall consist of the removal of dead, dying, diseased, interfering, objectionable and weak branches on the main trunk as well as those within the leaf area. An occasional branch up to one inch in diameter may remain within the main leaf area where it is not practical to remove it.
- The following specifications shall apply:
- a. All cuts shall be made sufficiently close to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub, so that closure can readily start under normal conditions. Clean cuts shall be made at all times.
 - b. It is necessary to pre-cut branches too heavy to handle to prevent splitting or peeling the bark. Where necessary, to prevent tree or property damage, branches shall be lowered to the ground by proper ropes or equipment.
 - c. Treatment of cuts and wounds, with tree wound dressing, is optional except where open wounds in certain trees may attract insects that carry disease or allow fungus invasion. If such treatment is made, materials non-toxic to the cambium layer must be used, and care taken to treat only the exposed wood with a thin coat of dressing.
 - d. On trees known to be diseased, tools are to be disinfected with methyl alcohol at 70% (denatured wood alcohol diluted appropriately with water) or Chlorox solution after each cut and between trees where there is known to be a danger of transmitting the disease on tools.
 - e. Old injuries are to be inspected. Those not closing properly and where the callus growth is not already completely established should be traced where appropriate. If desired, for cosmetic purposes, the wound may be treated with a thin coat of wound dressing.
 - f. All girdling roots visible to the eye are to be reported to the supervisor and the Engineer.
 - g. The presence of any structural weakness, disease conditions, decayed trunk or branches, split crotches or branches, should be reported in writing to the supervisor and the Engineer, and corrective measures recommended.

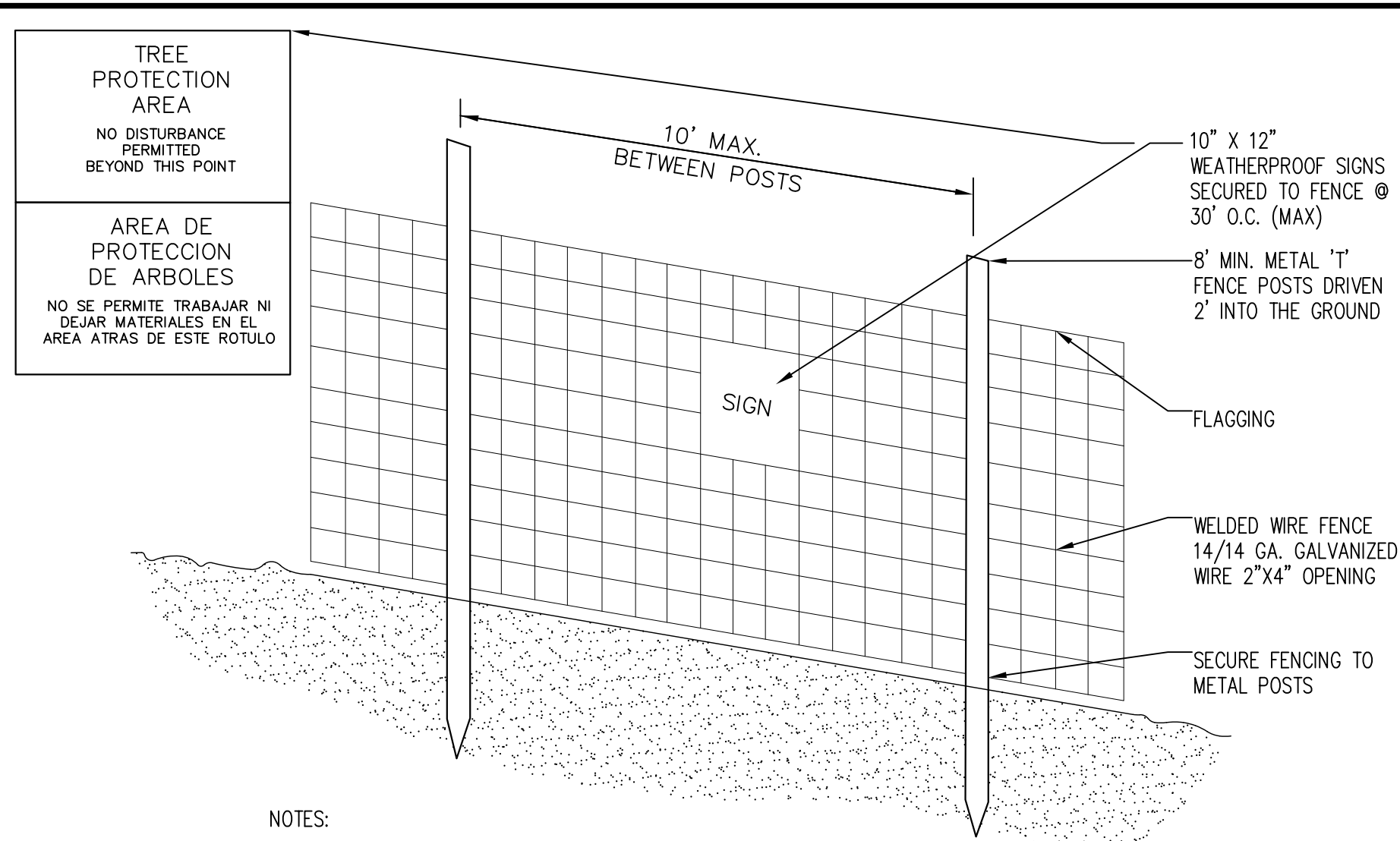
CROWN PRUNING
NOT TO SCALE



- NOTES
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS.
 2. BOUNDARIES OF RETENTION AREAS SHALL BE STAKED AND FLAGGED PRIOR TO TRENCHING.
 3. EXACT LOCATION OF TRENCH SHALL BE IDENTIFIED.
 4. TRENCH SHALL BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL.
 5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT
 6. ALL SIGNIFICANT TREES SHALL BE INSPECTED BY A ISA CERTIFIED ARBORIST PRIOR TO CONSTRUCTION AND ROOT PRUNING.

SOURCE: CITY OF GAITHERSBURG, MARYLAND: CITY TREE MANUAL

ROOT PRUNING PRIOR TO CONSTRUCTION
(IF NEEDED)



- NOTES:
1. PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.
 2. LOCATION AND LIMITS OF FENCING SHALL BE COORDINATED IN FIELD WITH ARBORIST.
 3. BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
 4. ROOT DAMAGE SHOULD BE AVOIDED.
 5. PROTECTIVE SIGNAGE IS REQUIRED.
 6. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION AREA ELEVATION
NOT TO SCALE

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION, DEPARTMENT OF PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section Date

APPROVED REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering Date

Designed by: SBD Drawn by: SBD Checked by: SJR

LS-07 LANDSCAPE DETAIL SHEET

GOOD HOPE ROAD SHARED USE PATH

0 30' 60'

SCALE: 1"=30'

DATE: DECEMBER 2021

Project No. : 501902 SHEET 84 of 135



LANDSCAPE PLANT SCHEDULE (TOTAL)						
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*CO	11	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2.5" CAL.	B&B	50' O.C., AS SHOWN
CV	5	CRATAEGUS VIRIDIS 'WINTER KING'	'WINTER KING' HAWTHORN	2.5" CAL.	B&B	30' O.C., AS SHOWN
*LS	6	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	SWEETGUM 'ROTUNDILOBA'	2.5" CAL.	B&B	50' O.C., AS SHOWN
*PO	13	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2.5" CAL.	B&B	50' O.C., AS SHOWN
*QB	7	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	B&B	50' O.C., AS SHOWN
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*LIVE FASCINE PLANT SCHEDULE (TOTAL)				
BOTANICAL NAME	COMMON NAME	LENGTH OF WHIP	DIAMETER OF FASCINE	QUANTITY
CORNUS AMOMUM	SILKY DOGWOOD	6' TO 8'	4"–10"	N/A
CORNUS SERICEA	RED–OSIER DOGWOOD	6' TO 8'	4"–10"	N/A
SALIX PURPUREA	STREAMCO WILLOW	6' TO 8'	4"–10"	N/A
SALIX SERICEA	SILKY WILLOW	6' TO 8'	4"–10"	N/A
TOTAL				79'

*SEE STREAM IMPROVEMENT SHEETS (SR–01–SR05) FOR FOR PLANT LOCATIONS.
NOTE: EQUAL QUANTITIES OF ALL 4 SPECIES SHALL BE COMBINED TO FORM EACH FASCINE BUNDLE

*LIVESTAKE PLANT SCHEDULE				
BOTANICAL NAME	COMMON NAME	DIAMETER (INCHES)	LENGTH (FT)	QTY
CORNUS AMOMUM	SILKY DOGWOOD	$\frac{3}{4}$ – 1.5	3 MIN.	23
SALIX PURPUREA	STREAMCO WILLOW	$\frac{3}{4}$ – 1.5	3 MIN.	23
SALIX SERICEA	SILKY WILLOW	$\frac{3}{4}$ – 1.5	3 MIN.	23
SALIX X COTTETI	DWARF WILLOW	$\frac{3}{4}$ – 1.5	3 MIN.	23
SAMBUCUS CANADENSIS	ELDERBERRY	$\frac{3}{4}$ – 1.5	3 MIN.	23
TOTAL				116

*SEE STREAM IMPROVEMENT SHEETS (SR–01–SR05) FOR FOR PLANT LOCATIONS.

LIVESTAKE NOTES:

- AN EQUAL AMOUNT OF EACH SPECIES SHALL BE PLANTED IN THE AREAS INDICATED ON THE PLANS.
- LIVESTAKES SHALL BE PLANTED AT A DENSITY OF 2 FEET ON–CENTER.

Riparian Seed Mix		
% of mix by species (20 lbs/acre native spp.)	Common Name	Species
25%	Creeping red fescue	Festuca rubra
20%	Virginia wild rye	Elymus virginicus
15%	Purple Top	Tridens flavus
30%	Riverbank wild rye	Elymus riparius
10%	Deer tongue grass	Dichanthelium clandestinum
Erosion Control to be Included in Mix		
lbs Per Acre	Type	Usage Dates
50	Oats or Barley	Nov. 1st thru March 15th
15	Foxtail Millet	May 15th thru Aug 15th
25	Annual Ryegrass	March 16th thru May 14th and Aug 16th thru Oct. 31st
This native seed mix has an application rate of 20+/- lbs/acre. Add an inexpensive, erosion control seed (types listed above) and spread at the appropriate rate. Therefore, if the native seed is 20 lbs/acre and the erosion control grass is 15 lbs/acre, total rate will be 35 lbs seed total/acre. Apply a weed free straw mulch at the end		

BIORETENTION MEADOW ESTABLISHMENT					
TABLE 3 - MEADOW SEED SPECIES AND APPLICATION RATES					
FORBS Include All	PURE LIVE SEED *		GRASSES Include All	PURE LIVE SEED *	
	GRAM PER SY	LB PER ACRE		GRAM PER SY	LB PER ACRE
Blackeyed Susan	0.094	1.0	Switchgrass	0.188	2.0
Partridge Pea	0.188	2.0	Deertongue	0.188	2.0
Red Clover	0.188	2.0	Hard Fescue	0.938	10.0
Note: The rate shown is Pure Live Seed. Use germination and purity data from the seed tag to calculate the actual seeding rate needed to obtain the seeding rate in Pure Live Seed.			Alkaligrass	0.188	2.0
			Purpletop	0.188	2.0
			Virginia Wildrye	0.094	1.0

SEE SPECIFICATIONS FOR MEASUREMENT AND PAYMENT, ETC.

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK J33

REVIEWED BY Brian Lewandowski

APPROVED BY 
CHIEF, CONSTRUCTION SECTION

DATE APPROVED: 12/14/2021

THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION

This approval is for technical review only.
For permit information, contact Jay Childs,
Construction Supervisor at (301) 495-2574



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section
APPROVED
REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering
Designed by: SBD Drawn by: SBD Checked by: SJR

LS-08 LANDSCAPE
PLANT SCHEDULE SHEET
GOOD HOPE ROAD
SHARED USE PATH

0 30' 60'

SCALE: 1"=30'

DATUM: NAD 83(2011) HORIZ
NAVD 88 VERT
DATE: DECEMBER 2021

Project No. : 501902 SHEET 85 of 135



TREE PRESERVATION NOTES

1. ALL WORK PERFORMED SHALL MEET OR EXCEED INDUSTRY STANDARDS AS MOST RECENTLY PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), OR THE TREE CARE INDUSTRY ASSOCIATION (TCIA). IN THE EVENT TREATMENTS PRESCRIBED ARE NOT COVERED BY AN EXISTING STANDARD, WORK SHALL MEET OR EXCEED STANDARDS APPROVED BY M-NCPPC.
2. TREES DESIGNATED FOR REMOVAL ALONG THE LIMITS OF DISTURBANCE SHALL BE REMOVED USING A CHAINSAW TO AVOID DAMAGE TO SURROUNDING TREES TO BE PRESERVED AND UNDERSTORY VEGETATION. IF A STUMP MUST BE REMOVED, THIS SHALL BE DONE ONLY WITH THE APPROVAL OF M-NCPPC USING A STUMP-GRINDING MACHINE IN A MANNER THAT CAUSES AS LITTLE DISTURBANCE AS POSSIBLE TO ADJACENT TREES, VEGETATION AND SOIL CONDITIONS.
3. ROOT PRUNING SHALL BE PERFORMED, AS NEEDED, TO COMPLY WITH THE FOREST CONSERVATION REQUIREMENTS OF THESE DEVELOPMENT CONDITIONS. ALL TREATMENTS SHALL BE CLEARLY IDENTIFIED, LABELED, AND DETAILED ON THE TREE PRESERVATION AND LANDSCAPE SHEETS OF THE PLAN SUBMISSION. THE DETAILS FOR THESE TREATMENTS SHALL BE REVIEWED AND APPROVED BY M-NCPPC, ACCOMPLISHED IN A MANNER THAT PROTECTS AFFECTED AND ADJACENT VEGETATION TO BE PRESERVED. ROOT PRUNING DETAILS MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: (1) ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18 INCHES; (2) ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING AND/OR INSTALLATION OF SUPER SILT FENCE, DIVERSION FENCE OR TREE PROTECTION FENCE; (3) ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF THE PARK URBAN FORESTER; AND (4) A M-NCPPC REPRESENTATIVE SHALL BE INFORMED WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.
4. IMMEDIATELY AFTER THE E&S ACTIVITIES ARE COMPLETE, TREES INDICATED FOR MULCHING IN THE TREE INVENTORY SHALL BE MULCHED TO PROTECT THE ROOTS AND RETAIN MOISTURE. HARDWOOD CHIPS OR SHREDDED MULCH SHALL BE APPLIED AT A MAXIMUM DEPTH OF 4 INCHES AROUND THESE SPECIFIC TREES AND ONLY WITHIN 10 FEET OF THE LIMITS OF DISTURBANCE. ADDITIONAL AREAS MAY BE MULCHED AS PART OF THE INVASIVE SPECIES MANAGEMENT, SEE INVASIVE SPECIES MANAGEMENT NOTES, THIS SHEET.
5. ALL CONSTRUCTION ACTIVITY BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN SHALL BE PROHIBITED UNLESS PREVIOUSLY APPROVED. THE STORAGE OF EQUIPMENT, MATERIALS, CHEMICALS, AND DEBRIS AS WELL AS VEHICULAR TRAFFIC OR THE PARKING OF VEHICLES SHALL NOT BE PERMITTED WITHIN TREE PRESERVATION AREAS.
6. THE SERVICES OF THE PROJECT SURVEYOR SHALL BE RETAINED TO HAVE THE LIMITS OF CLEARING AND GRADING IN THE AREAS OF TREE PRESERVATION MARKED WITH A CONTINUOUS LINE OF FLAGGING PRIOR TO THE WALK-THROUGH MEETING WITH THE M-NCPPC DEPARTMENT OF PLANNING FOREST CONSERVATION INSPECTOR AND PARKS DEPARTMENT INSPECTOR TO BE HELD PRIOR TO ANY CLEARING AND GRADING. DURING THE TREE PRESERVATION WALK-THROUGH MEETING, THE PARK URBAN FORESTER SHALL WALK SUCH LIMITS OF CLEARING AND GRADING WITH BOTH INSPECTORS TO DETERMINE WHERE ADJUSTMENTS TO THE CLEARING LIMITS CAN BE MADE TO INCREASE THE AREA OF TREE PRESERVATION AND/OR TO INCREASE THE SURVIVABILITY OF TREES AT THE EDGE OF THE LIMITS OF CLEARING AND GRADING. SUCH ADJUSTMENT SHALL BE IMPLEMENTED; PROVIDED, HOWEVER, THAT NO ADJUSTMENT SHALL BE REQUIRED THAT WOULD AFFECT THE LOCATION AND/OR DESIGN OF THE DEVELOPMENT, INCLUDING A REQUIREMENT FOR ADDITIONAL RETAINING WALLS. TREES WITHIN THE PRESERVATION AREAS THAT ARE IDENTIFIED SPECIFICALLY BY M-NCPPC IN WRITING AS DEAD OR DYING MAY BE REMOVED AS PART OF THE CLEARING OPERATION. ANY TREE THAT IS SO DESIGNATED SHALL BE REMOVED USING A CHAIN SAW AND SUCH REMOVAL SHALL BE ACCOMPLISHED IN A MANNER THAT AVOIDS DAMAGE TO SURROUNDING TREES AND ASSOCIATED UNDERSTORY VEGETATION. IF A STUMP MUST BE REMOVED, THIS SHALL BE DONE USING A STUMP-GRINDING MACHINE IN A MANNER CAUSING AS LITTLE DISTURBANCE AS POSSIBLE TO ADJACENT TREES AND ASSOCIATED UNDERSTORY VEGETATION AND SOIL CONDITIONS.
7. THE LIMITS OF CLEARING AND GRADING SHALL BE STRICTLY CONFORMED TO, AS SHOWN ON THE PLAN, SUBJECT TO ALLOWANCES SPECIFIED IN THESE DEVELOPMENT CONDITIONS AND FOR THE INSTALLATION OF FENCES AND/OR UTILITIES AS DETERMINED NECESSARY BY M-NCPPC. IF IT IS DETERMINED NECESSARY TO INSTALL FENCES AND/OR UTILITIES IN AREAS PROTECTED BY THE LIMITS OF CLEARING AND GRADING AS SHOWN ON THE PLAN, THEY SHALL BE LOCATED IN THE LEAST DISRUPTIVE MANNER NECESSARY AS DETERMINED BY M-NCPPC AND THE PARK URBAN FORESTER.
8. DURING ANY CLEARING OR TREE/VEGETATION REMOVAL IN THE AREAS ADJACENT TO THE TREE PRESERVATION AREAS, A REPRESENTATIVE OF THE DEVELOPER SHALL BE PRESENT TO MONITOR THE PROCESS AND ENSURE THAT THE ACTIVITIES ARE CONDUCTED AS CONDITIONED AND APPROVED BY M-NCPPC. THE SERVICES OF THE PARK URBAN FORESTER SHALL BE RETAINED TO MONITOR ALL ON-SITE CONSTRUCTION AND DEMOLITION WORK AND TREE PRESERVATION EFFORTS IN ORDER TO ENSURE CONFORMANCE WITH ALL TREE PRESERVATION CONDITIONS, AND M-NCPPC APPROVALS. MONITORING VISITS SHALL BE CONDUCTED WEEKLY DURING E&S INSTALLATION (CLEARING AND GRADING) CONSTRUCTION AND MONTHLY THEREAFTER UNTIL PROJECT COMPLETION.
9. ALL TREES SHOWN TO BE PRESERVED ON THE FOREST CONSERVATION PLAN SHALL BE PROTECTED BY TREE PROTECTION FENCE. TREE PROTECTION FENCING OR SUPER SILT FENCING SHALL BE ERECTED AT THE LIMITS OF CLEARING AND GRADING ADJACENT TO THE TREE PRESERVATION AREAS AS SHOWN ON THE PLANS, AS MAY BE MODIFIED BY THE DEVELOPMENT CONDITIONS BELOW. SUPER SILT FENCE ADJACENT TO MAJOR ROOTS OF TREES MAY BE NOTCHED, AS APPROVED, BY THE DPS INSPECTOR IN THE FIELD. ALL TREE PROTECTION FENCING SHALL BE INSTALLED AFTER THE TREE PRESERVATION WALK-THROUGH MEETING BUT PRIOR TO ANY CLEARING AND GRADING ACTIVITIES. THE INSTALLATION OF ALL TREE PROTECTION FENCING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PARK URBAN FORESTER AND M-NCPPC, AND ACCOMPLISHED IN A MANNER THAT DOES NOT HARM EXISTING VEGETATION THAT IS TO BE PRESERVED.
10. SIGNS STATING "TREE PRESERVATION AREA" SHALL BE AFFIXED TO THE TREE PRESERVATION FENCE AT LEAST EVERY 30 FEET. SIGNS SHALL INCLUDE BOTH ENGLISH AND SPANISH AS SHOWN ON DETAIL.
11. IN ORDER TO MEET THE REFORESTATION REQUIREMENTS FOR THIS PROJECT, THE COUNTY WILL DEBIT 0.96 ACRES FROM THE REFORESTATION PROGRAM. THE REFORESTATION SITE LOCATION IS GREAT SENECA CREEK REFORESTATION SITE, PARCEL NUMBER 358, LOCATED AT 15813 DARNESTOWN ROAD, DARNESTOWN, MARYLAND.

INVASIVE SPECIES NOTES

1. ALL WORK MUST BE PERFORMED BY A STATE LICENSED PESTICIDE APPLICATOR, UNDER THE SUPERVISION OF A MARYLAND REGISTERED FORESTER OR OTHER QUALIFIED PROFESSIONAL WITH A SUFFICIENT EDUCATION AND EXPERIENCE IN INVASIVE SPECIES AND INTEGRATED PEST MANAGEMENT TECHNIQUES.
2. CONTRACTOR MUST OBTAIN ALL PERMITS REQUIRED.
3. AN INTEGRATED PEST MANAGEMENT (IPM) PLAN SPECIFICALLY FOR INVASIVE SPECIES SHALL BE SUBMITTED TO AND APPROVED BY M-NCPPC. THIS PLAN WILL INCLUDE AREAS OF TREATMENT, TECHNIQUES, AND TYPES AND QUANTITIES OF HERBICIDES TO BE APPLIED. TECHNIQUES MAY INCLUDE A COMBINATION OF HAND OR SMALL MECHANICAL VEGETATION REMOVAL, MULCHING, AND THE APPLICATION OF HERBICIDE. SMALL MACHINERY REFERS TO ANY PIECE OF EQUIPMENT THAT CAN EASILY BE CARRIED IN AND OUT OF THE FOREST CONSERVATION AREAS SUCH AS A WEED TRIMMER OR CHAINSAW. ANYTHING LARGER THAN A SMALL MACHINE REQUIRES THE APPROVAL OF M-NCPPC.
4. AREAS WITHIN THE LOD SHOULD BE CUT TO THE GROUND AND CLEARED OF ALL VEGETATIVE MATERIAL. OUTSIDE OF LOD (A MAXIMUM ADDITIONAL DISTANCE OF 50 FEET), THE CLEARING SHOULD BE DONE MANUALLY (MACHETE, WEED TRIMMER, OR CHAINSAW) UNDER THE SUPERVISION OF M-NCPPC STAFF. REGROWTH OF INVASIVES SHALL BE TREATED BY HERBICIDE APPLICATION. SEE INVASIVE REMOVAL SPECIFICATION FOR DETAILS OF TYPE AND STRENGTH OF HERBICIDE. THE SPRAYING MUST BE DONE UNDER THE SUPERVISION OF M-NCPPC. REMOVAL MAY REQUIRE THREE APPLICATIONS OF HERBICIDE.
5. 6 TO 8 INCHES OF MULCH MAY BE APPLIED TO AREAS WITH HEAVILY ESTABLISHED INVASIVE SPECIES AFTER THE AREA HAS BEEN TREATED APPROPRIATELY WITH EITHER HAND REMOVAL OR HERBICIDE. THIS MULCHING SHOULD OCCUR 72 HOURS AFTER THE LAST HERBICIDE APPLICATION.
6. IN THE VICINITY OF WATER, FOLLOW THE HERBICIDE'S LABELED INSTRUCTIONS. AN HERBICIDE DESIGNED TO BE USED IN THE VICINITY OF WATER MAY BE REQUIRED (IE. RODEO).
7. THE USE OF A QUALITY SURFACTANT WITH HERBICIDES IS RECOMMENDED FOR IMPROVED CONTROL. SEE HERBICIDE LABEL.
8. READ AND FOLLOW THE PRODUCT LABEL FOR RATES ON THE HERBICIDES.
9. ALL PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE ON-SITE DURING ANY APPLICATION OF HERBICIDES.
10. ALL PLANTS ON THE MARYLAND DEPARTMENT OF NATURAL RESOURCES EXOTIC AND INVASIVE SPECIES LIST SHALL BE ERADICATED FROM ALL AREAS WITHIN THE LOD AND A MAXIMUM ADDITIONAL DISTANCE OF 50 FEET BEYOND THE LOD INTO THE FOREST CONSERVATION AREAS.
11. INDIVIDUALS INVOLVED IN INVASIVE PLANT REMOVAL MUST MEET WITH M-NCPPC PARKS DEPARTMENT STAFF AND PLANNING DEPARTMENT FOREST CONSERVATION INSPECTOR ON-SITE FOR A PRE-WORK MEETING PRIOR TO VEGETATION REMOVAL, MULCHING, OR HERBICIDE APPLICATION.
12. THE CONTRACTOR MUST FOLLOW ALL MARYLAND DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS REGARDING THE SPRAYING OF HERBICIDES. ANY HERBICIDES USED IN THE REMOVAL OF EXOTIC INVASIVE PLANTS MUST BE APPLIED BY A MARYLAND LICENSED PESTICIDE APPLICATOR.
13. CONTRACTOR MUST NOTIFY M-NCPPC STAFF 48 HOURS PRIOR TO SPRAYING.
14. HERBICIDE USE GUIDE
- | Generic Name | Brands/Manufacturer | Comments |
|----------------------------------|--|---|
| Triclopyr salt | Garlon 3A
Dow AgroSciences
44.4% active ingredient | Dicot-specific (will not kill grasses); can be used for foliar, cut surface, basal bark treatments

SAFE FOR USE OVER OR NEAR WATER |
| Triclopyr ester | Garlon 4
Dow AgroSciences
61.6% active ingredient | Dicot-specific (will not kill grasses); can be used for foliar, cut surface, basal bark treatments

DO NOT USE OVER OR NEAR WATER |
| Triclopyr ester | Pathfinder II
Dow Agro Sciences
13.6% active ingredient | A ready-to-use product formulated for cut stem or basal bark treatments. |
| Glyphosate w/ surfactant | Roundup Original
Roundup Original II
Roundup Pro
Monsanto Company all are 41% active ingredients
Read the label for Generic versions, % active ingredient varies. | Non-selective (will kill all vegetation); can be used for foliar, cut surface, basal bark treatments

DO NOT USE OVER OR NEAR WATER |
| Glyphosate w/o surfactant | Rodeo
Dow AgroSciences
53.8% active ingredient
Aqua Neat
Riverdale
53.8% active ingredient | Non-selective (will kill all vegetation); can be used for foliar and cut surface treatments

SAFE FOR USE OVER OR NEAR WATER |
15. CONTRACTOR TO REFER TO PUBLICATION FROM M-NCPPC DEPARTMENT OF PARKS PUBLICATION, Best Management Practices for Control of Non-Native Invasive Plants, April, 2020.

STANDARD TREE CANOPY NOTES

ANY SHADE TREE PLANTED TO COMPLY WITH CHAPTER 55 OF THE COUNTY CODE MUST CONFORM TO THE FOLLOWING:

1. EACH SHADE TREE MUST MEET THE REQUIREMENTS FOR PLANT MATERIAL IN ANSI Z60.1;
2. EACH SHADE TREE MUST BE A MINIMUM OF 2" CALIPER;
3. INSTALLATION OF EACH SHADE TREE MUST MEET ALL REQUIREMENTS OF ANSI A300;
4. AT THE TIME OF PLANTING:
 - a. TREE GUARDS TO PROTECT TREES FROM DEER RUBBING, MOWERS, WEED EATERS, OTHER EQUIPMENT AND LARGE RODENTS MUST BE INSTALLED ON ALL SHADE TREES;
 - b. MULCH MUST BE APPLIED;
 - c. SUFFICIENT WATER MUST BE APPLIED TO AID IN PROPER PLANTING.
5. SHADE TREES MUST BE INSTALLED BETWEEN OCTOBER 15TH AND MAY 15TH AS LONG AS THE GROUND IS NOT FROZEN, SATURATED, OR COVERED WITH SNOW SUCH THAT A SUITABLE HOLE CANNOT BE DUG;
6. SHADE TREES MUST NOT BE INSTALLED BETWEEN MAY 16TH AND OCTOBER 14TH OF EACH YEAR. IF INSTALLATION CANNOT OCCUR BETWEEN OCTOBER 15TH AND MAY 15TH FOR ANY REASON, OR IF PROPOSED TREES ARE NOT PLANTED FOR ANY OTHER REASON, THE PERMITTEE MUST PAY THE REQUIRED FEE IN LIEU.
7. IF SHADE TREES ARE INSTALLED PRIOR TO FINAL STABILIZATION OF THE LAND DISTURBING ACTIVITY THEN NO ADDITIONAL DISTURBANCE MUST OCCUR WITHIN FIVE FEET OF THE STEM OF THE TREE. PROTECTIVE FENCING MUST BE INSTALLED AT THE EDGE OF THIS AREA AT THE SAME TIME THE TREE IS INSTALLED AND MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION OCCURS.
8. THE LOCATION OF GROWING ZONES AND PLANTING AREAS MUST BE CLEARLY MARKED IN THE FIELD PRIOR TO INSTALLATION OF ANY SHADE TREE.
9. A COPY OF THE APPROVED SEDIMENT CONTROL PLAN SHOWING ALL APPROVED GROWING ZONES AND PLANTING AREAS MUST BE AVAILABLE ON THE SITE AT ALL TIMES.
10. AT LEAST ONE INSPECTION MUST OCCUR AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETED TO DETERMINE THE LEVEL OF COMPLIANCE WITH SHADE TREE PLANTING REQUIREMENTS.

INSPECTIONS NOTES

1. ALL FIELD INSPECTIONS MUST BE REQUESTED BY THE APPLICANT. INSPECTIONS MUST BE CONDUCTED AS FOLLOWS:
 - a. AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS
 - b. AFTER NECESSARY STRESS REDUCTION MEASURES HAVE BEEN COMPLETED AND PROTECTION MEASURES HAVE BEEN INSTALLED, BUT BEFORE ANY CLEARING AND GRADING BEGIN
 - c. AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES, BUT BEFORE REMOVAL OF TREE PROTECTION FENCING, TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISION OF THE FOREST CONSERVATION.
 - d. BEFORE THE START OF ANY REQUIRED REFORESTATION AND AFFORESTATION PLANTING
 - e. AFTER THE REQUIRED REFORESTATION AND AFFORESTATION PLANTING HAS BEEN COMPLETED TO VERIFY THAT THE PLANTING IS ACCEPTABLE AND PRIOR TO THE START OF THE MAINTENANCE PERIOD.
 - f. AT THE END OF THE MAINTENANCE PERIOD TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISIONS OF THE PLANTING PLAN AND, IF APPROPRIATE, RELEASE OF THE PERFORMANCE BOND.

THE MARYLAND-LAND PLANNING
CAPITAL PARK AND PLANNING
COMMISSION DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK J33



REVIEWED BY Brian Lewandowski

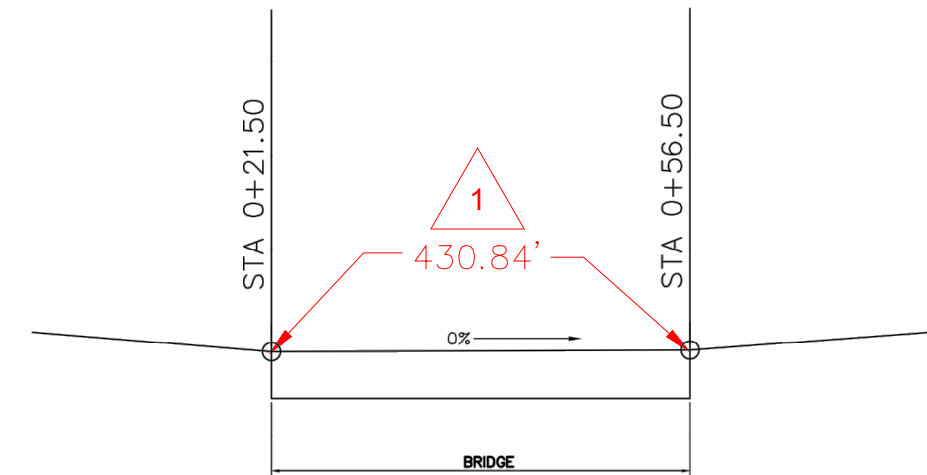
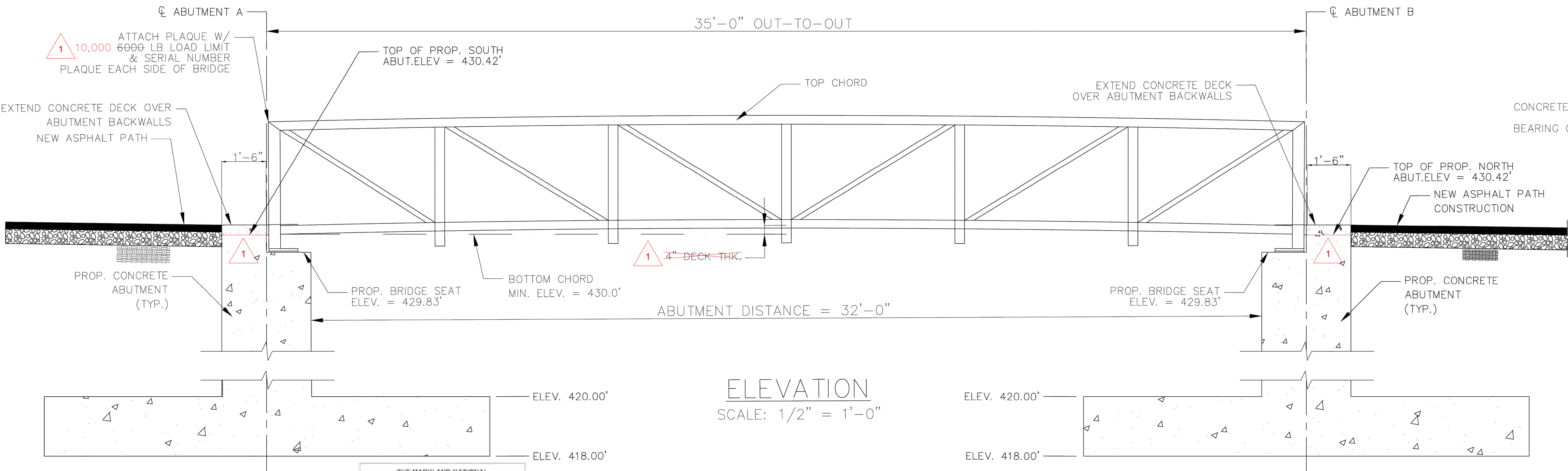
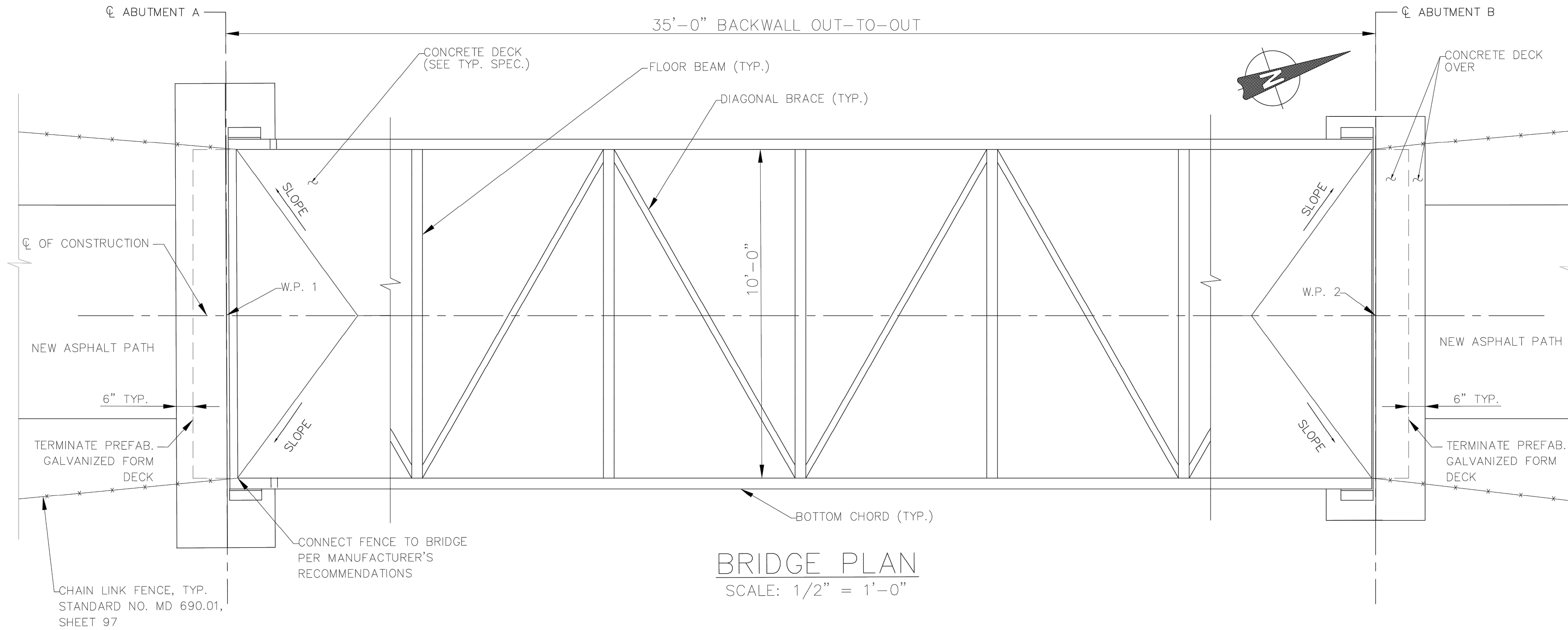
APPROVED BY CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

**THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION**

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For permit information, contact Jay Chids,
Construction Supervisor at (301) 495-2574

					<p style="text-align: center;">MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND</p> <hr/> <p>RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES</p> <p>Chief, Design Section _____ Date _____</p> <p>APPROVED REFER TO TITLE SHEET FOR SIGNATURES</p> <p>Chief, Division of Transportation Engineering _____ Date _____</p> <hr/> <p>Designed by: <u>SBD</u> Drawn by: <u>SBD</u> Checked by: <u>SJR</u></p>	<p style="text-align: center;">LS-09 LANDSCAPE NOTE SHEET</p> <p style="text-align: center;">GOOD HOPE ROAD SHARED USE PATH</p> <div style="text-align: center;">  <p>0 30' 60'</p> <p>SCALE: 1" = 30'</p> </div> <p style="text-align: right;">DATE: DECEMBER 2021</p> <hr/> <p>Project No. : <u>501902</u> SHEET <u>86</u> of <u>135</u></p>
	NO.	REVISION	DATE	BY		



GENERAL NOTES:

- SPECIFICATIONS: MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2021; AND
- DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2017.
- LOADING: A. H-5 OR A UNIFORM PEDESTRIAN LOAD OF 90 PSF.
B. 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
C. 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.15.3).
- LOAD RESTRICTIONS: THERE ARE RESTRICTIONS FOR PLACING EQUIPMENT AND MATERIALS ON EXISTING AND NEW STRUCTURES. REFER TO SECTION TC 6.14.
- CONCRETE: ALL CONCRETE FOR THE BRIDGE DECK SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15).
ALL OTHER CONCRETE SHALL BE MIX NO. 3 (3500 PSI).
- REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 WITH A YIELD STRENGTH FOR DESIGN OF $f_y = 60,000$ PSI.
ALL SPLICES NOT SHOWN SHALL BE LAPPED A MINIMUM 48 BAR DIAMETERS.
- STRUCTURAL STEEL: STRUCTURAL STEEL FOR PREFABRICATED TRUSS SHALL CONFORM TO A709, GRADE 50. STRUCTURAL TUBING FOR PREFABRICATED TRUSS SHALL CONFORM TO A500 GRADE C. ALL TRUSS MEMBER AND FLOOR BEAM STEEL SHALL MEET THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING. ALL STRUCTURAL STEEL AND TUBING FOR PREFABRICATED TRUSS SHALL BE GALVANIZED AND PAINTED.
- TRUSS DESIGN: THE FUNDAMENTAL FREQUENCY OF THE PEDESTRIAN BRIDGE WITHOUT LIVE LOAD SHALL BE GREATER THAN 3.0 HZ. DEFLECTION OF PEDESTRIAN BRIDGES SHALL BE IN ACCORDANCE WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.

- ALL MEMBER, TYPES, SIZES SHALL BE IN ACCORDANCE WITH CONTINENTAL BRIDGE STANDARDS FOR 35' SPAN PRE-FABRICATED PONY TRUSS BRIDGE OR APPROVED EQUAL.
- TRUSS SHALL BE DARK BROWN IN COLOR. COLOR AND FINISHES SHALL SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR TO PROCUREMENT.
- CONCRETE DECK: GALVANIZED STEEL FORM DECK DESIGNED BY BRIDGE MANUFACTURER. (7 GAUGE MINIMUM DECK FORM THICKNESS)
- BEARING CAPACITY: ALLOWABLE BEARING PRESSURE FOR THE FOUNDATION IS 2 KSF AND SHALL BE VERIFIED IN THE FIELD BY A QUALIFIED ENGINEER PROVIDED BY THE COUNTY. IF THE ACTUAL BEARING CAPACITY DOES NOT MEET THE DESIGN CRITERIA, THE ENGINEER SHALL BE CONTACTED BEFORE CONSTRUCTION SO THE NECESSARY ACTION MAY BE TAKEN. PRIOR TO PLACEMENT OF THE AGGREGATE SUBBASE, THE SUITABILITY OF THE SUBGRADE SOILS SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER. THE SUBGRADE SHALL BE RECOMPACTED, AND ANY SOFT, WET, DELETERIOUS, OR OTHERWISE UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. STRUCTURAL FILL FOR THE SUBBASE SHALL BE CR-6, OR AN APPROVED ALTERNATE.

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

MANCPD PERMIT NO. **2020-034**

PARK **J33**

REVIEWED BY **Brian Lewandowski**

APPROVED BY **CHIEF, CONSTRUCTION SECTION**

DATE APPROVED **12/14/2021**

**THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION**

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Construction Supervisor at (301) 495-2574

STRUCTURE PLANS REFERENCE TABLE	
SHEET NO.	TITLE
87	ST-01 PED. BRIDGE PLAN
88	ST-02 PED. BRIDGE GEOMETRIC LAYOUT
89	ST-03 ABUTMENT A - PLAN & ELEV
90	ST-04 ABUTMENT B - PLAN & ELEV
91	ST-05 ABUTMENT A REINF. DETAILS
92	ST-06 ABUTMENT B REINF. DETAILS
93	ST-07 SUPERSTRUCT TYPICAL SECTION
94	ST-08 SOIL BORINGS
95	ST-09 ABUTMENT SCOUR PROTECTION
96	ST-10 ENDWALL DETAILS
97	ST-11 FENCE DETAILS

RJM

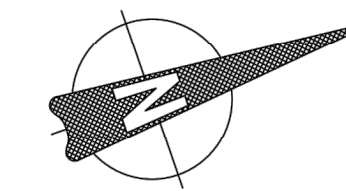
RJM ENGINEERING

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date
Chief, Division of Transportation Engineering	Date
Designed by: HQ	Drawn by: KJS
Checked by: DZ	

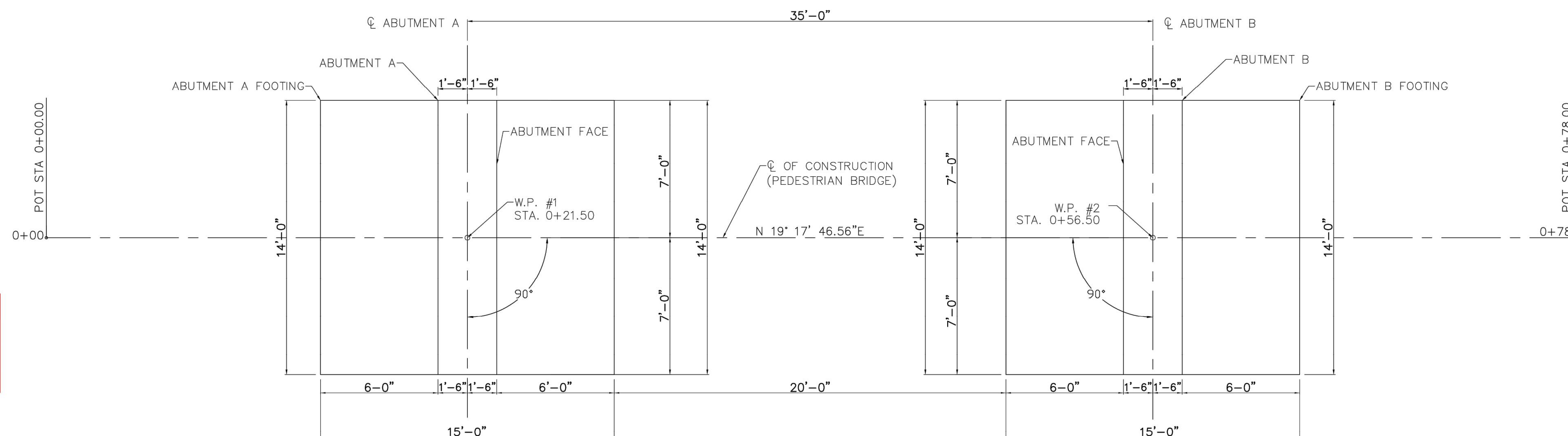
ST-01 PED. BRIDGE PLAN STRUCTURE PLANS	
GOOD HOPE ROAD SHARED USE PATH	
0 5' 10'	SCALE: 1"=5'
Project No. : 501902	DATE: DECEMBER 2021
SHEET 87 of 135	

This approval is for technical review only. For permit information, contact Jay Childs Construction Supervisor at (301) 495-2537.



1	PEDESTRIAN BRIDGE BASELINE COORDINATES			
	STATION	OFFSET	NORTHING	EASTING
	0+00.00	0.00'	524,051.57	1,317,831.75
	0+78.00	0.00'	524,125.19	1,317,857.53

PEDESTRIAN BRIDGE - WORKING POINTS					GOOD HOPE ROAD BASELINE	
POINT #	Northing	Easting	STATION	OFFSET	STATION	OFFSET
1	524071.86	1317838.85	0+21.50	0.00'	27+10.61	23.27' L
2	524104.89	1317850.42	0+56.50	0.00'	27+46.30	23.04' L



27+00

28+00

GEOMETRIC LAYOUT PLAN
SCALE: 1/4" = 1'-0"



RJM ENGINEERING

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by:	HQ	Drawn by:	KJS	Checked by:	DZ
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by:	HQ	Drawn by:	KJS	Checked by:	DZ
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ST-02	PED. BRIDGE GEOMETRIC LAYOUT STRUCTURE PLANS
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GOOD HOPE ROAD
SHARED USE PATH

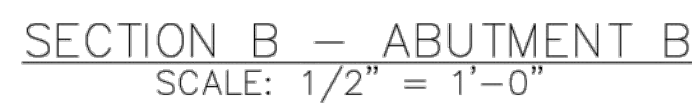
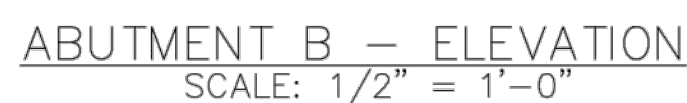


SCALE: 1/4"=1'

DATE: DECEMBER 2021

Project No. : 501902

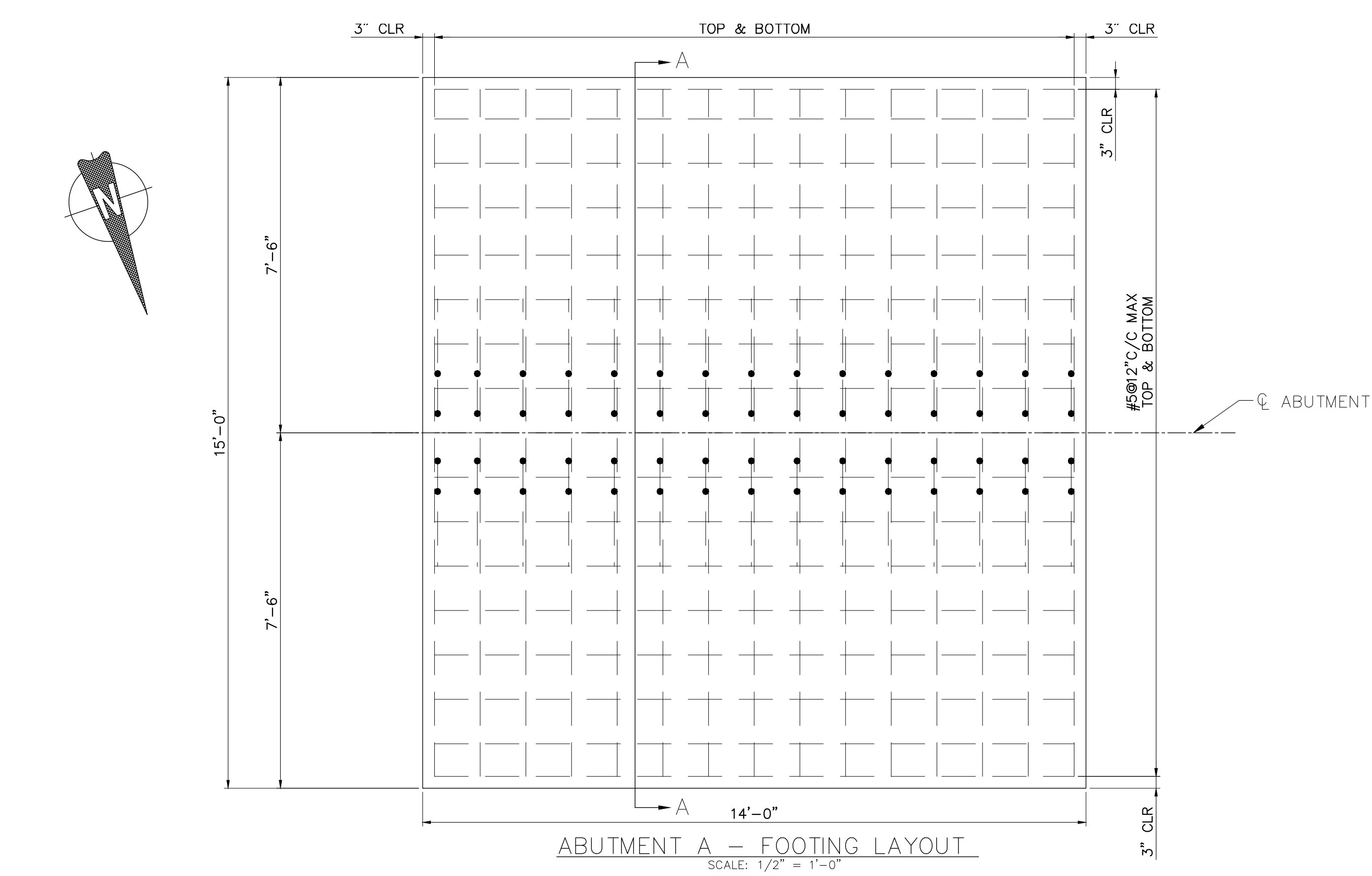
SHEET 88 of 135



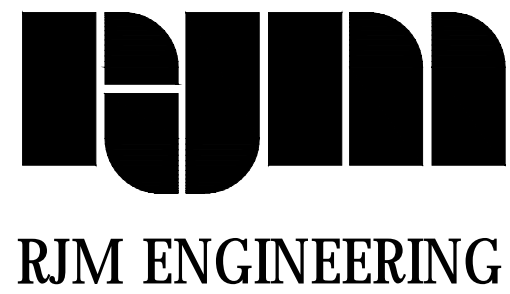
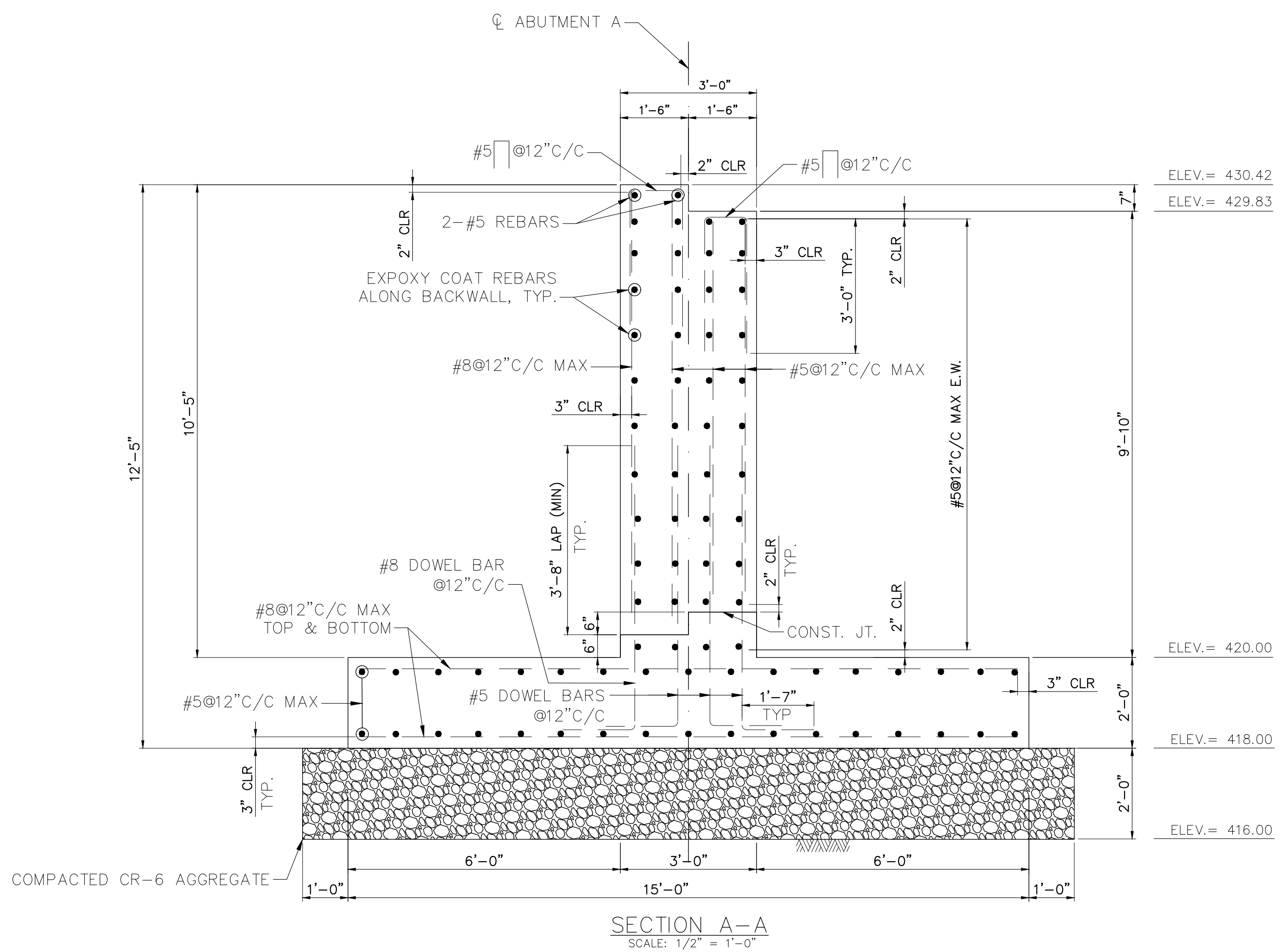
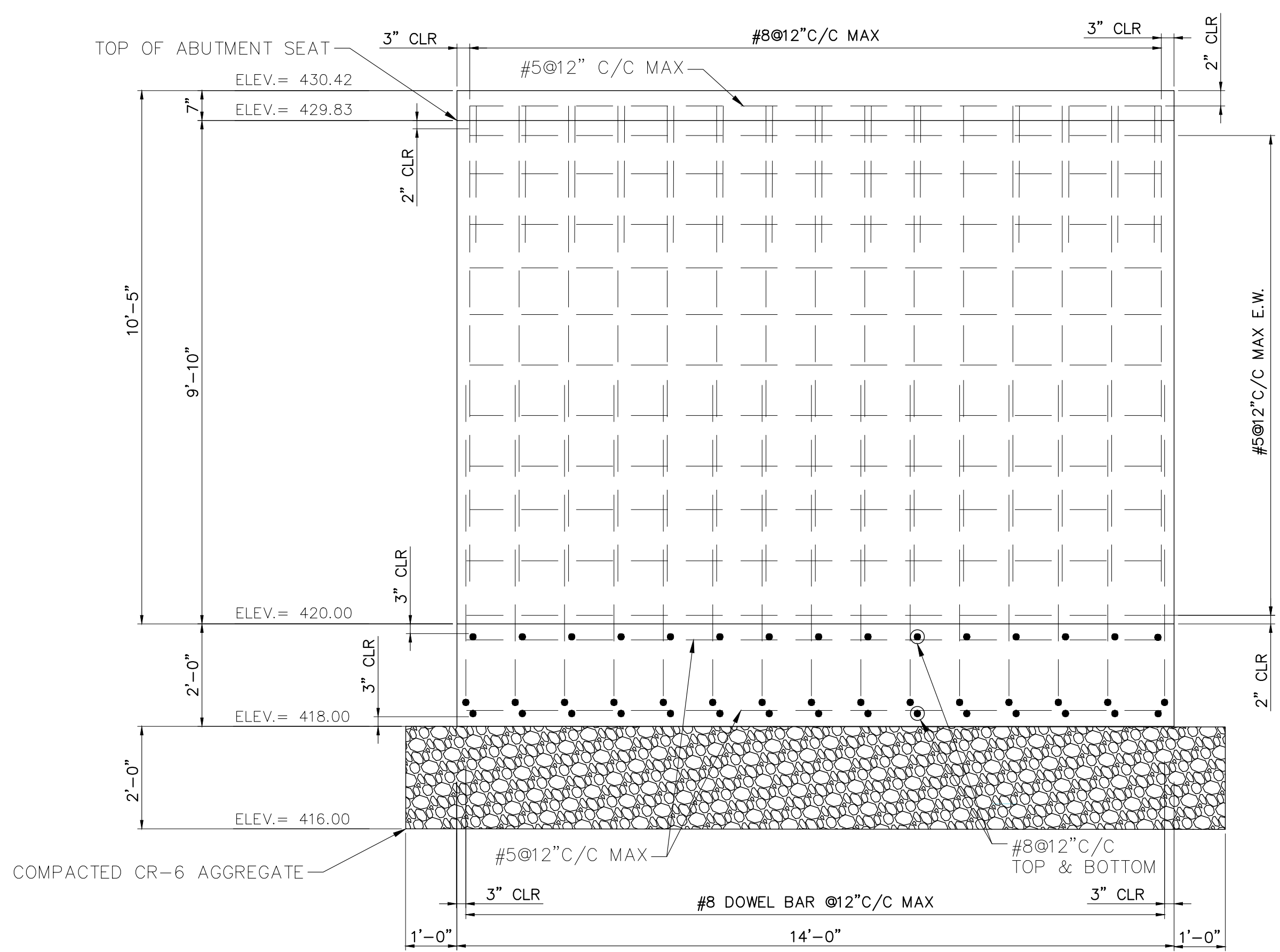
THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION
DATE APPROVED: 12/14/2021

THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION
This approval is for technical review only.
For permit information, contact Jay Childs,
Construction Supervisor at (301) 495-2574



- NOTES:
1. TOP OF ABUTMENT SEAT ELEVATION SHALL BE COORDINATED WITH TRUSS MANUFACTURER AND MAY VARY FROM ELEVATION SHOWN ON THIS SHEET.
 2. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 GALVANIZED. SIZE, QUANTITIES, LOCATION AND EMBEDMENT LENGTH OF ANCHOR RODS SHALL BE COORDINATED WITH TRUSS MANUFACTURER.



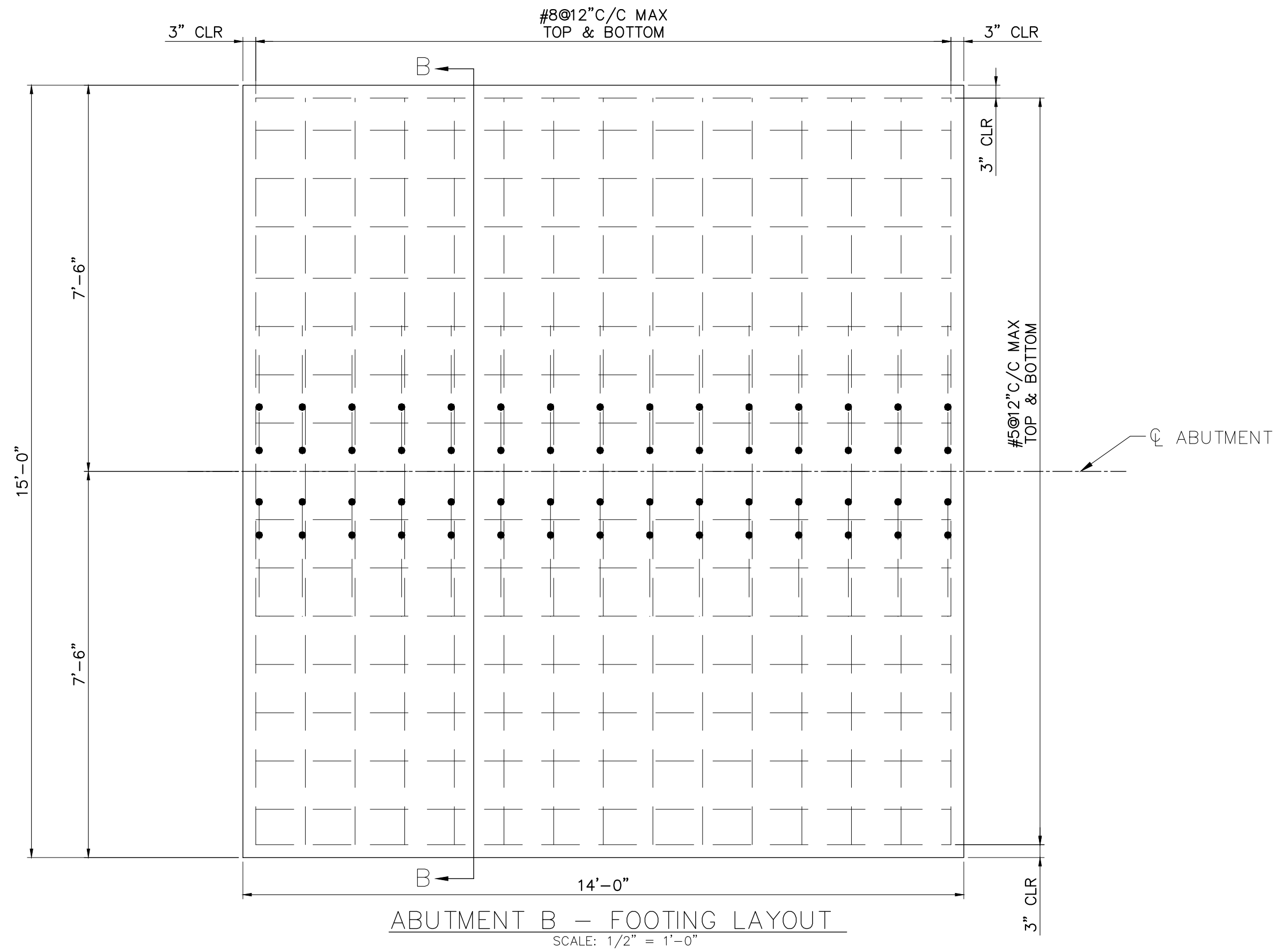
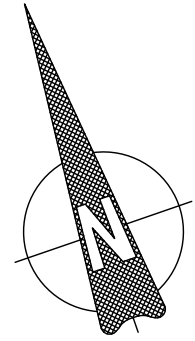
<div>NO.</div> <div>REVISION</div> <div>DATE</div> <div>BY</div>	<div>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND</div>	<div>ST-05 ABUTMENT A REINF. DETAILS STRUCTURE PLANS</div> <div>GOOD HOPE ROAD SHARED USE PATH</div>
	<div>RECOMMENDED FOR APPROVAL</div> <div>REFER TO TITLE SHEET FOR SIGNATURES</div> <div>Chief, Design Section APPROVED</div>	<div>SCALE: 1/2"=1'</div> <div>DATE: DECEMBER 2021</div>
	<div>REFER TO TITLE SHEET FOR SIGNATURES</div> <div>Chief, Division of Transportation Engineering</div>	<div>Project No. : <u>501902</u></div> <div>SHEET <u>91</u> of <u>135</u></div>
	<div>Designed by: <u>HQ</u> Drawn by: <u>KJS</u> Checked by: <u>DZ</u></div>	

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION
DATE APPROVED 12/14/2021

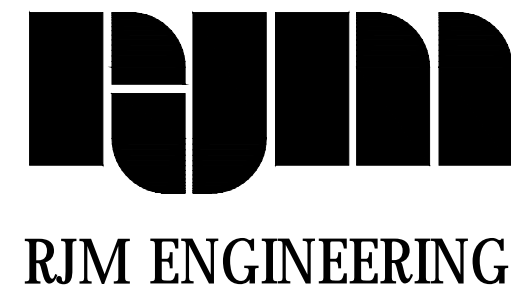
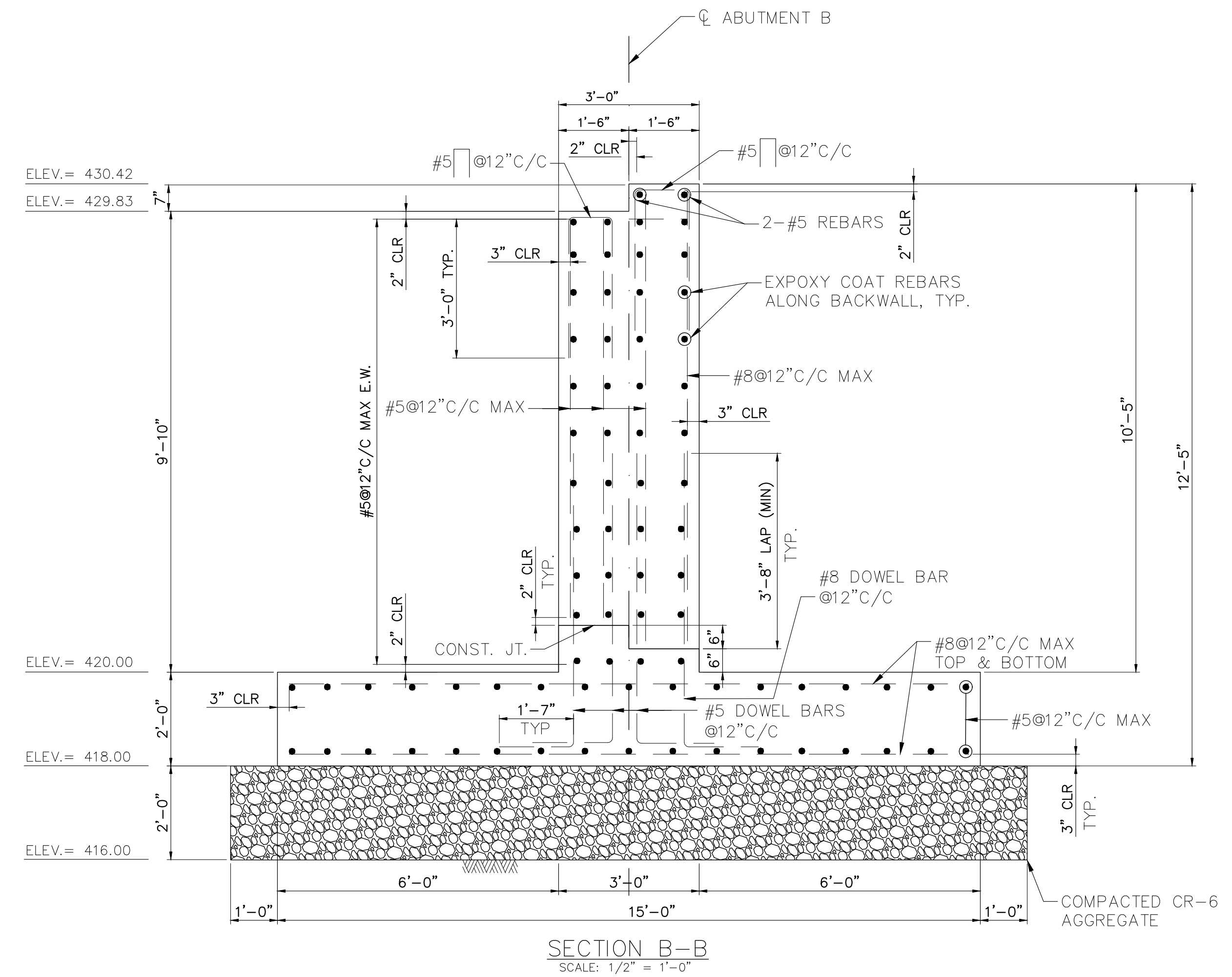
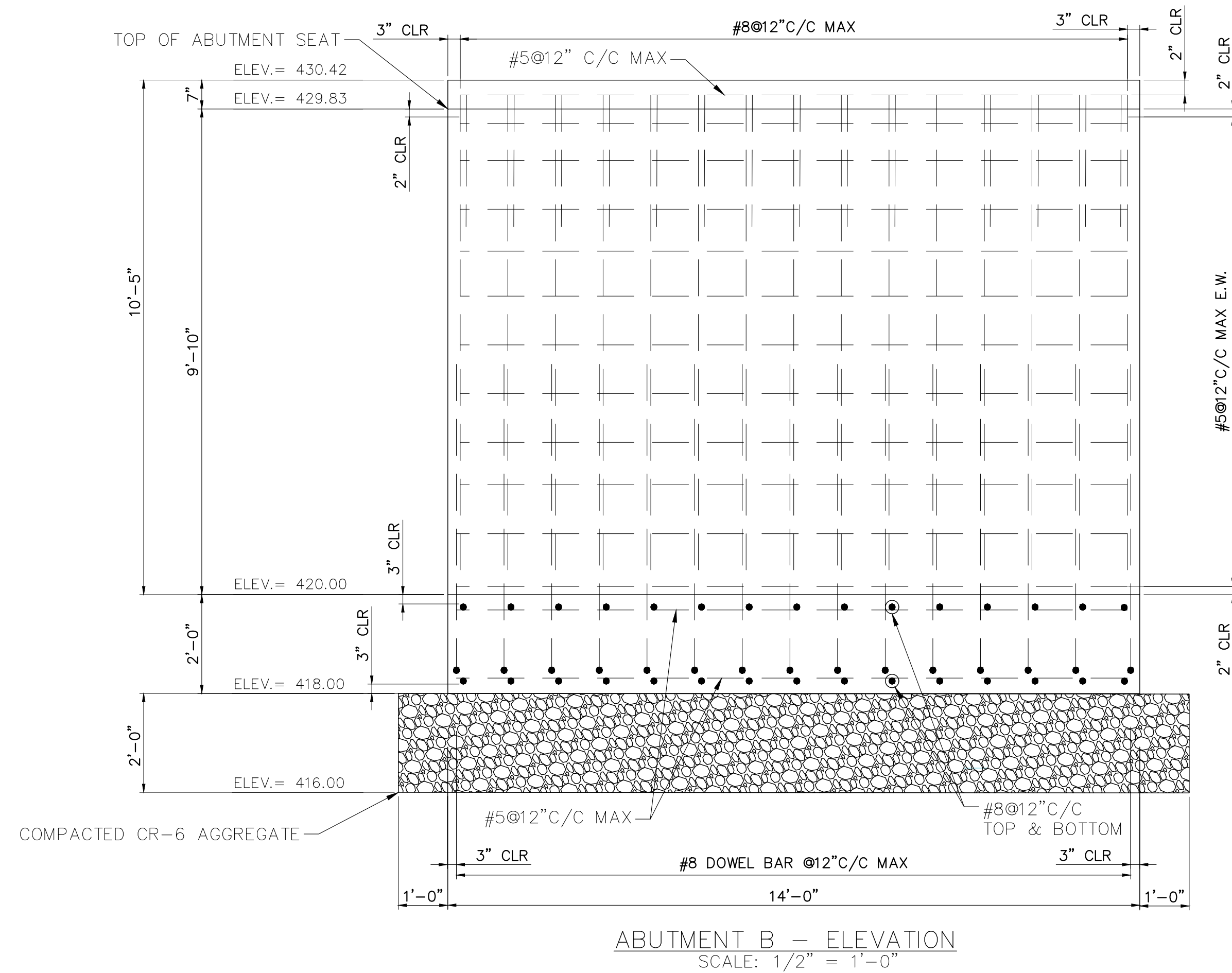
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Construction Supervisor at (301) 495-2514



NOTES:

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ST-06 ABUTMENT B REINF. DETAILS
STRUCTURE PLANS

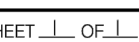
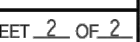
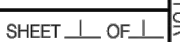
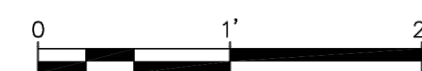
**GOOD HOPE ROAD
SHARED USE PATH**

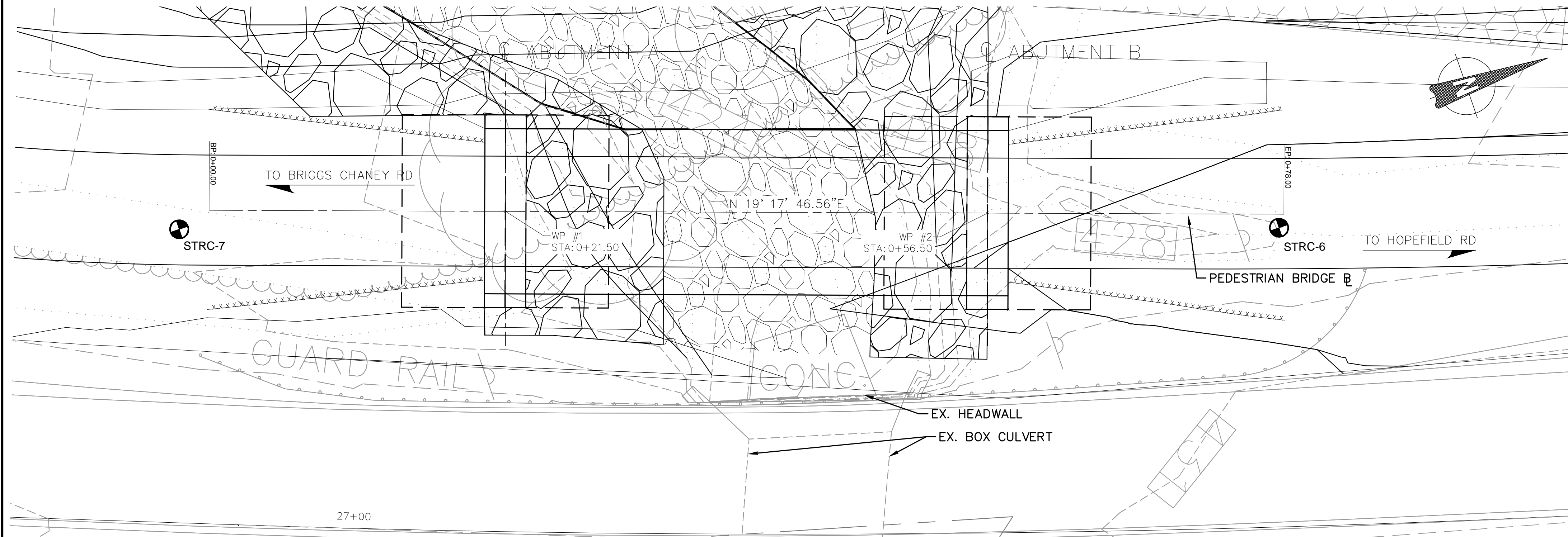
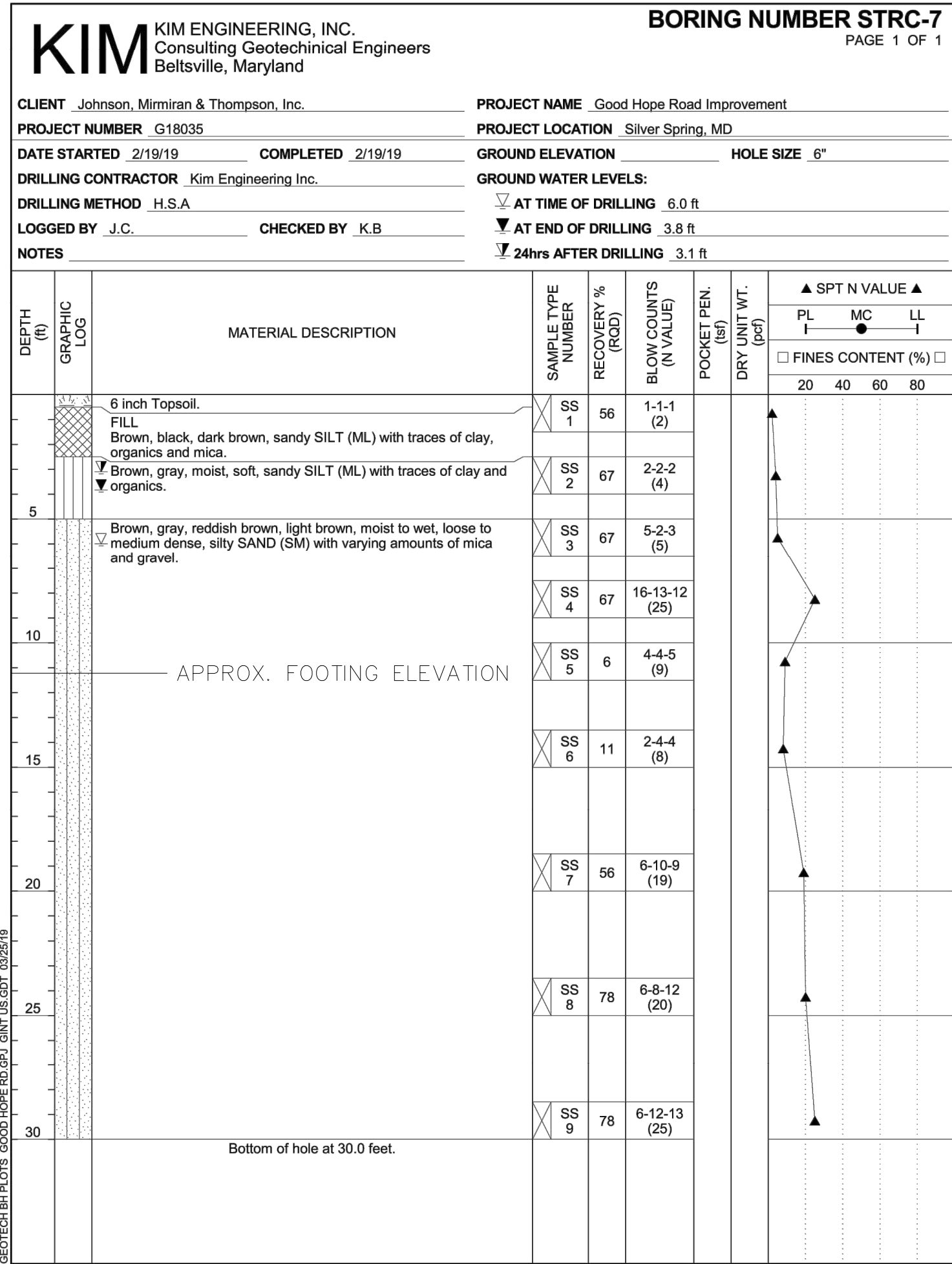
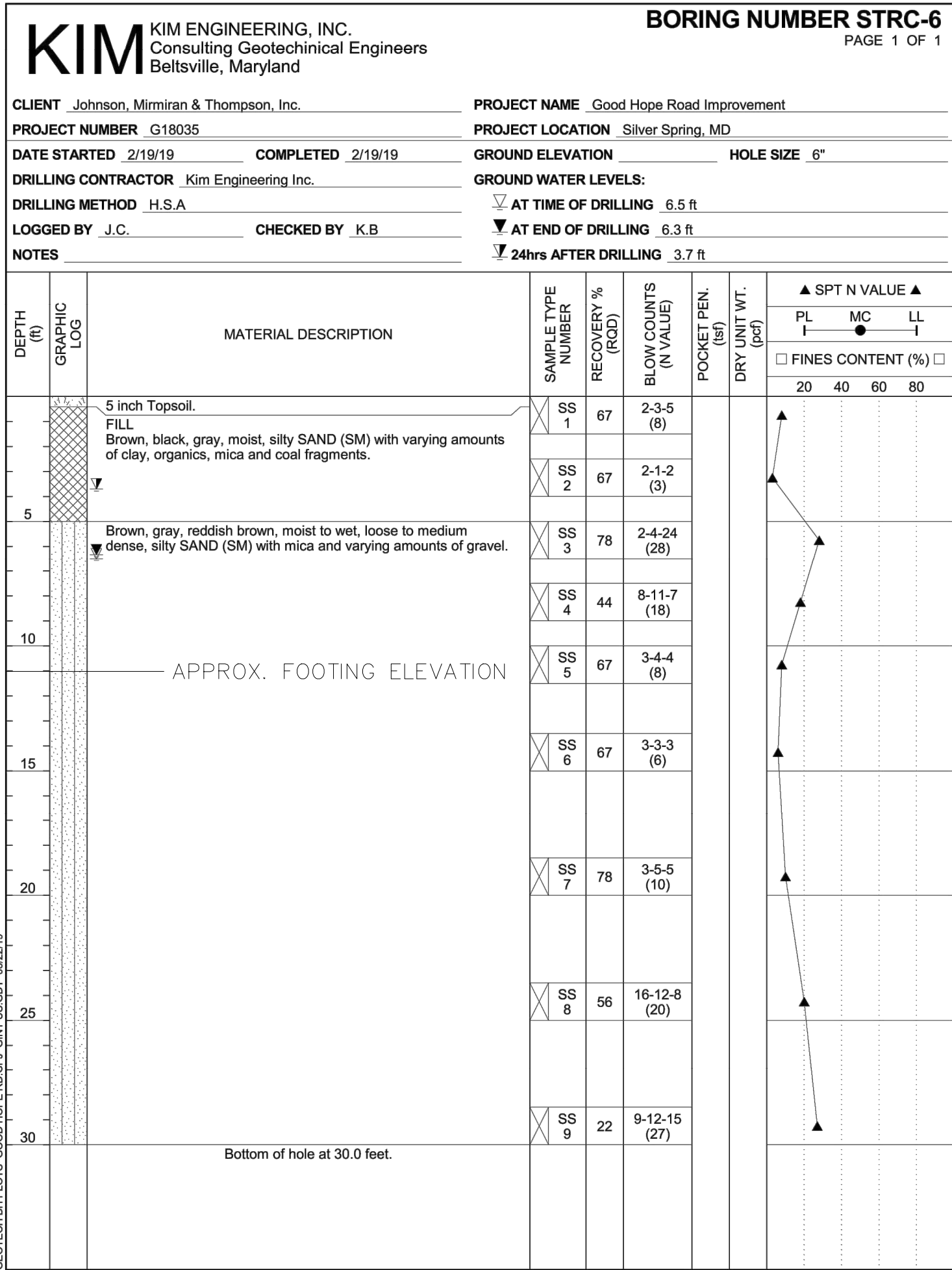


SCALE: 1/2"=1'

DATE: DECEMBER 2021

Project No. : 501902 SHEET 92 of 135





BORING LOCATION PLAN
1" = 5'

RJM
RJM ENGINEERING

NOTES:

- THE BORINGS AND DRIVE TESTS WERE TAKEN ON FEBRUARY 2, 2019 BY KIM ENGINEERING, INC.
- THE INFORMATION PROVIDED IN THE BORING LOGS IS TRUE AND ACCURATE SOLELY FOR THE SPECIFIC LOCATIONS FOR WHICH BORINGS WERE DRILLED AND SOIL PROPERTIES WERE ANALYZED. THE BORING LOGS ARE PRESENTED FOR INFORMATIONAL PURPOSES ONLY.

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION
DATE APPROVED 12/14/2021

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Construction Supervisor at (301) 495-2574

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
REFER TO TITLE SHEET FOR SIGNATURES
Chief, Design Section Date
APPROVED

REFER TO TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering Date

Designed by: HQ Drawn by: KJS Checked by: DZ

ST-08 SOIL BORINGS
STRUCTURE PLANS
GOOD HOPE ROAD
SHARED USE PATH

0 5' 10'
SCALE: 1"=5'

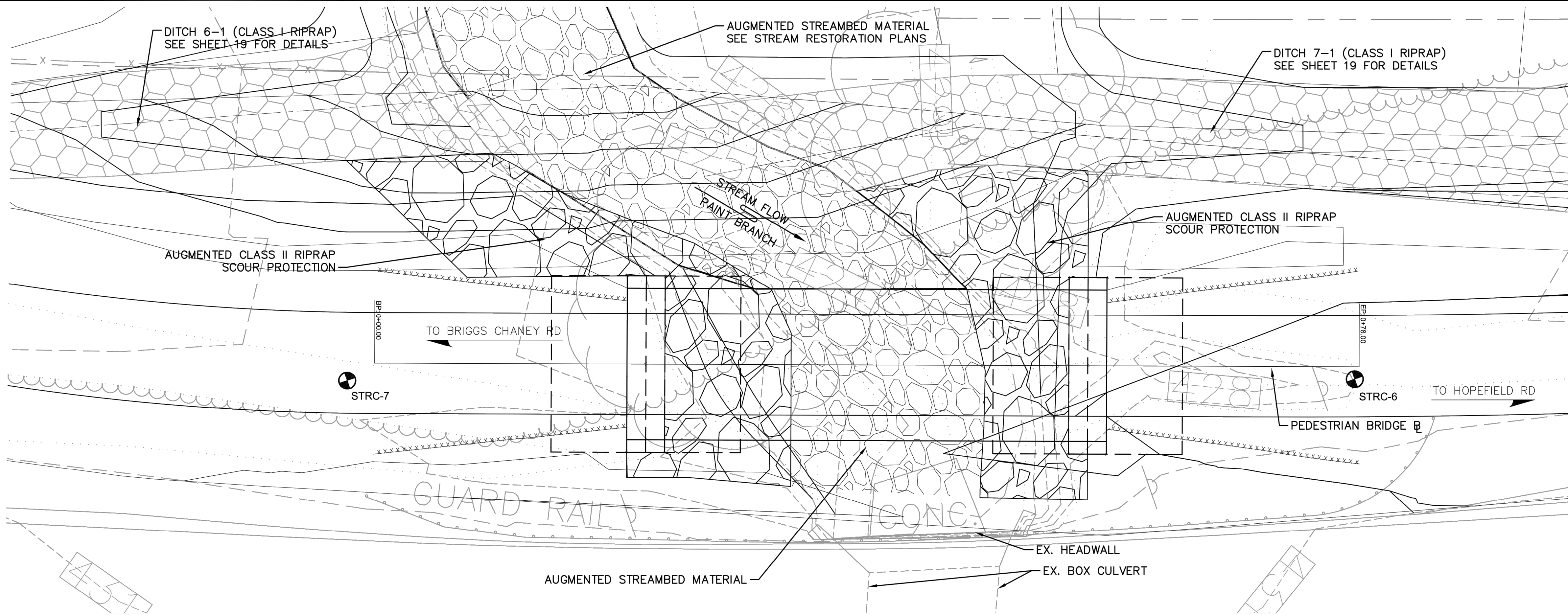
DATE: DECEMBER 2021

Project No. : 501902 SHEET 94 of 135

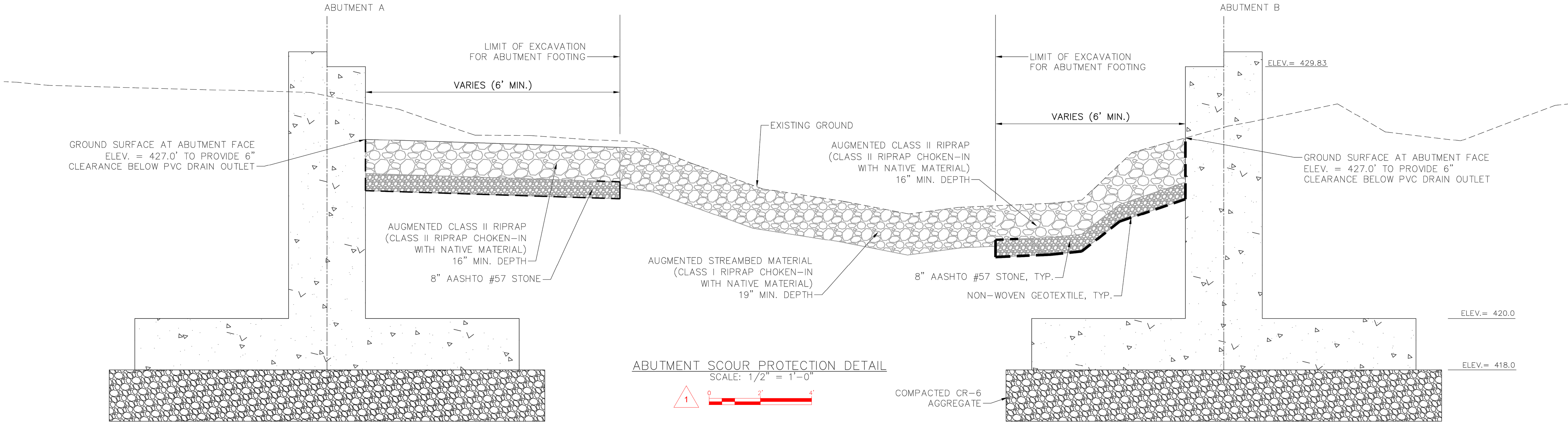
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ABUTMENT SCOUR PROTECTION PLAN
SCALE: 1" = 5'



ABUTMENT SCOUR PROTECTION DETAIL
SCALE: 1/2" = 1'-0"



RJM ENGINEERING

		SCALE BARS ADDED		3/11/2022		KJS	

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

MNDPPC PERMIT NO. 2020-034

PARK J33

REVIEWED BY Brian Lewandowski

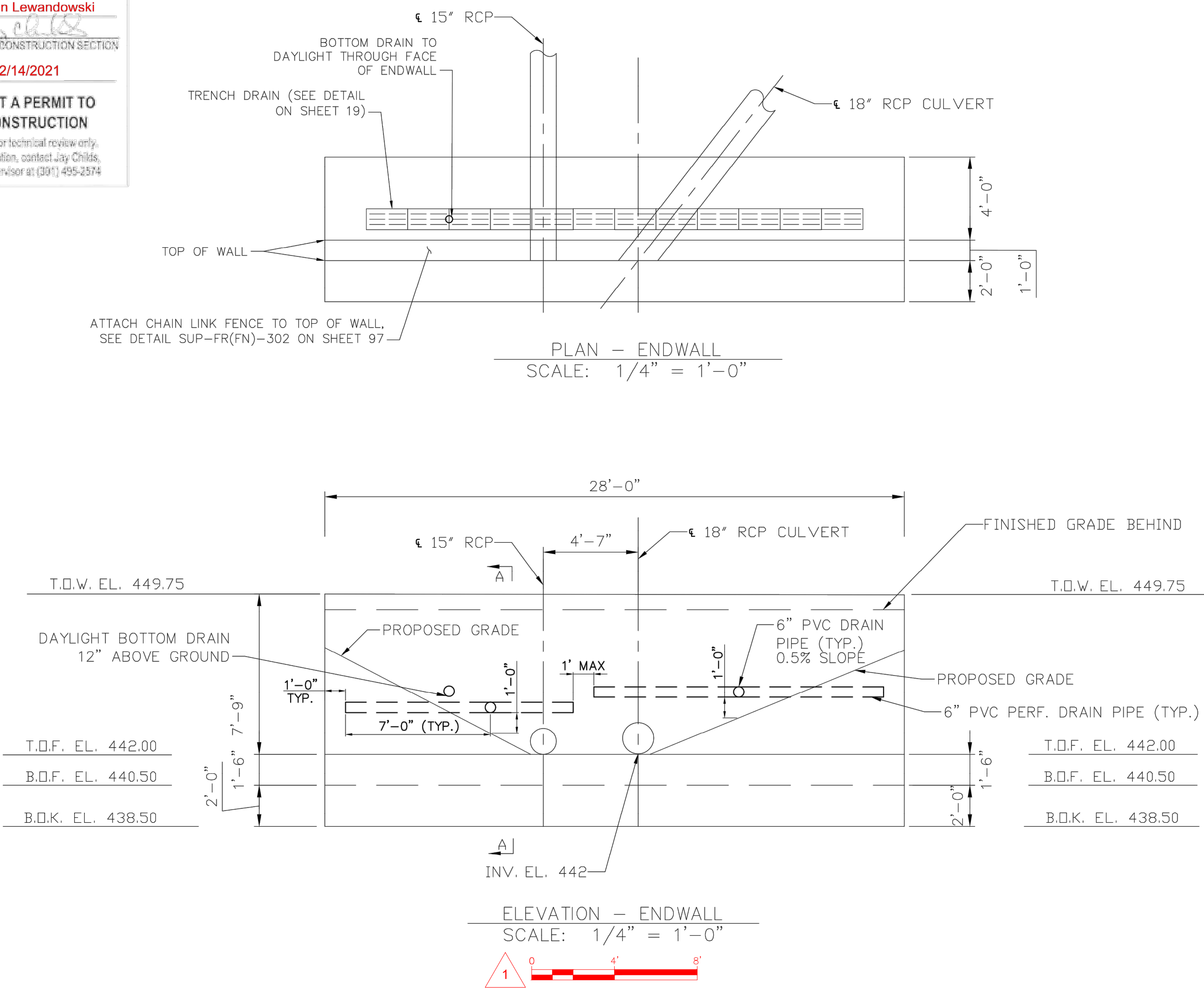
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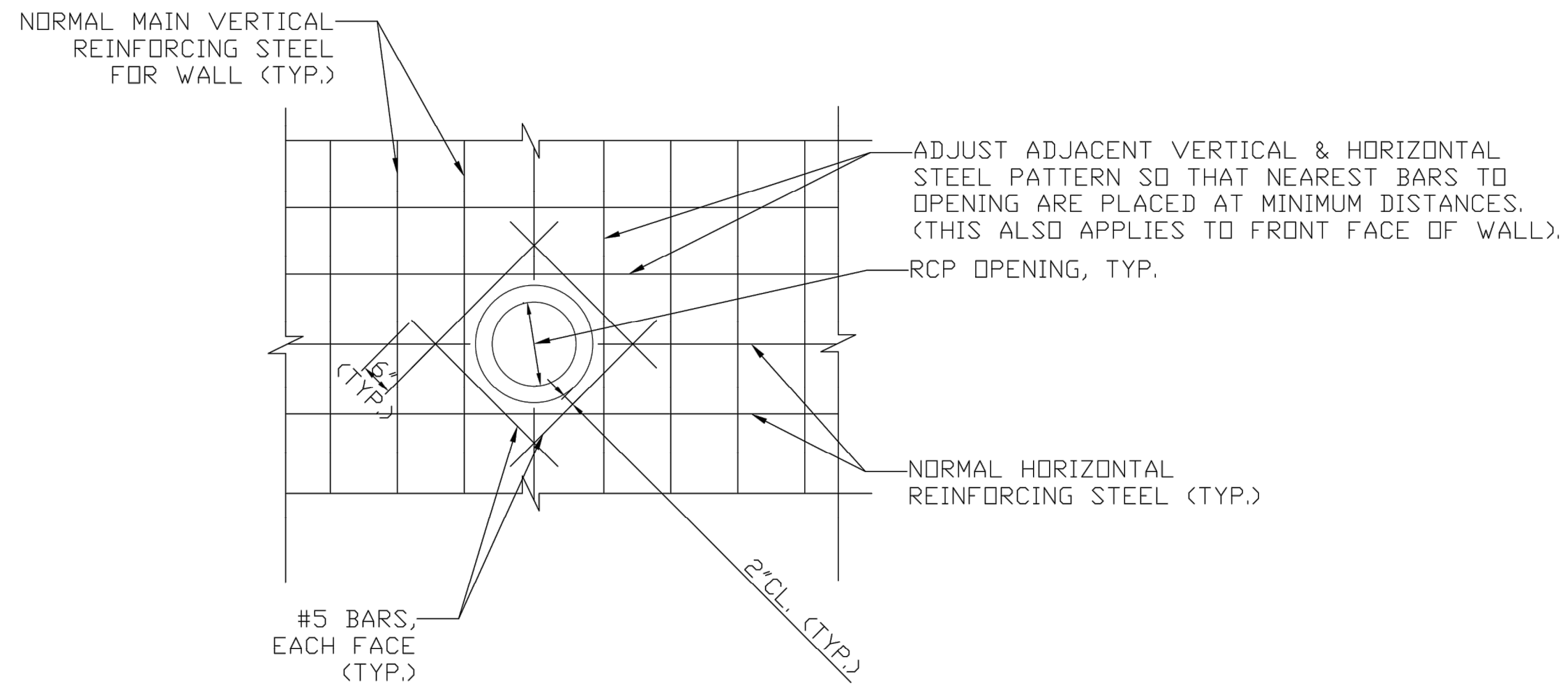
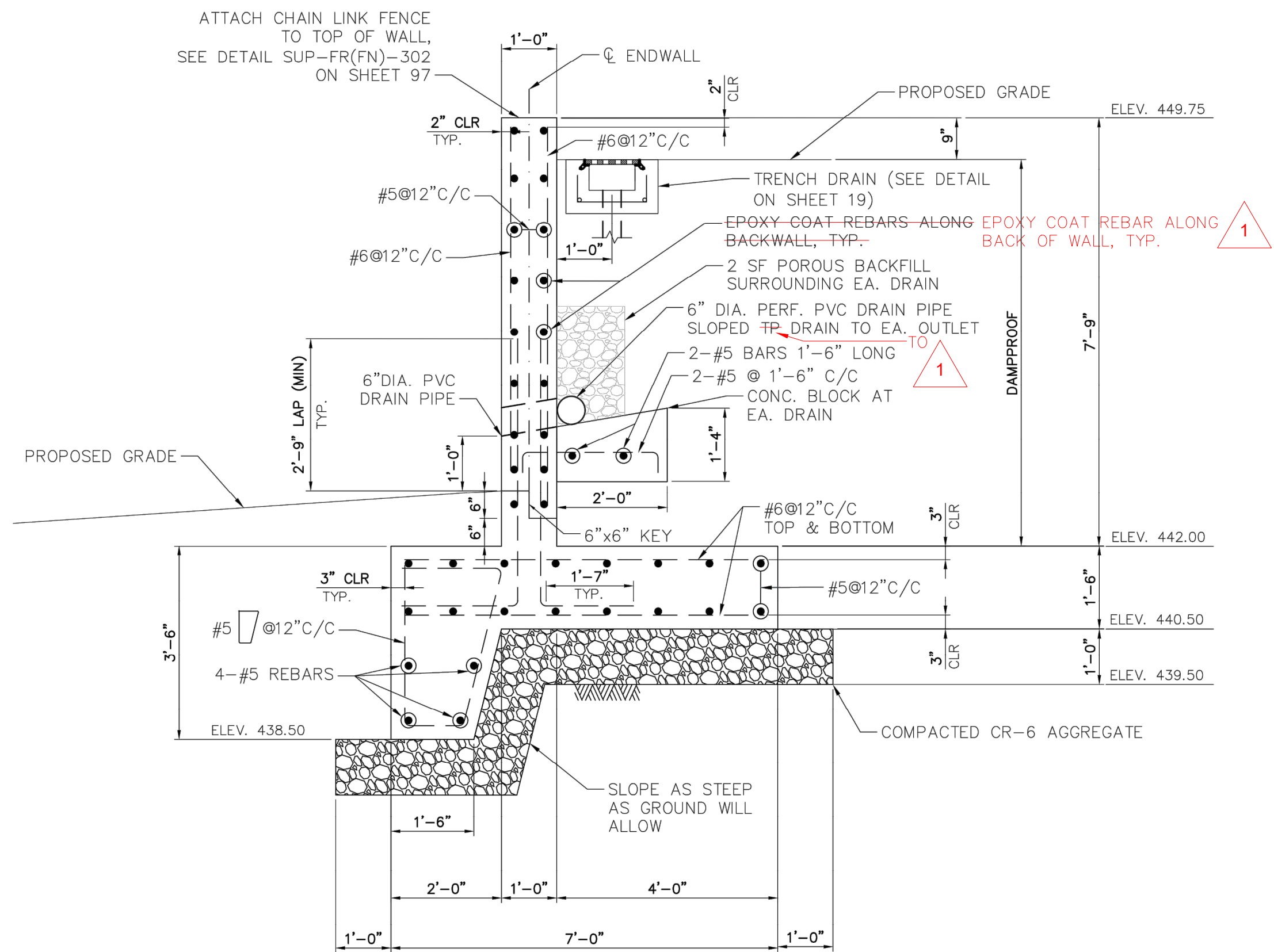
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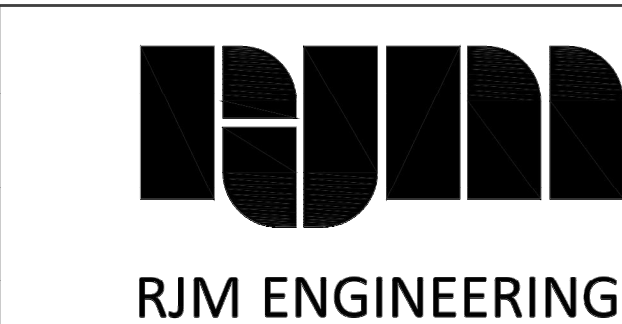
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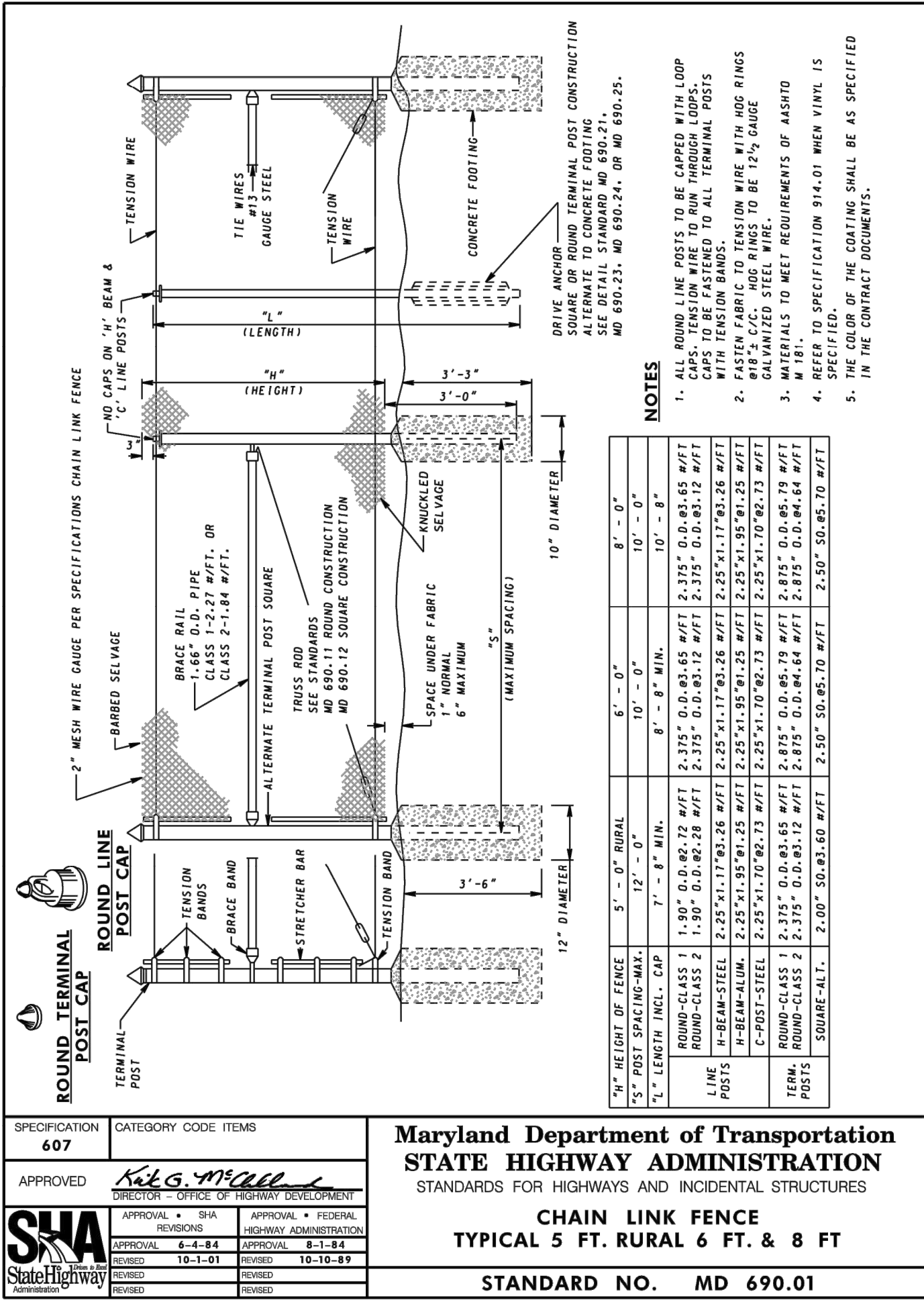
- NOTES:
1. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING ST-01 ON SHEET 87.
 2. FOR CHAIN LINK FENCE DETAILS, SEE DRAWING ST-11 ON SHEET 97.



- NOTES:
1. IN NO CASE SHALL CONCRETE COVER BE LESS THAN 2".



REVIS				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				ST-10 ENDWALL DETAILS STRUCTURE PLANS			
RECOMMENDED FOR APPROVAL				GOOD HOPE ROAD SHARED USE PATH				DATE: DECEMBER 2021			
Chief, Design Section APPROVED				Chief, Division of Transportation Engineering				SCALE: AS NOTED			
Designed by: HQ				Drawn by: KJS				Project No. : 501902			
Checked by: DZ				SHEET 96 of 135				DATUM: NAD 83(2011) HORIZ NAVD 88 VERT			
NO.				REVISION				DATE			
BY				DATE				BY			

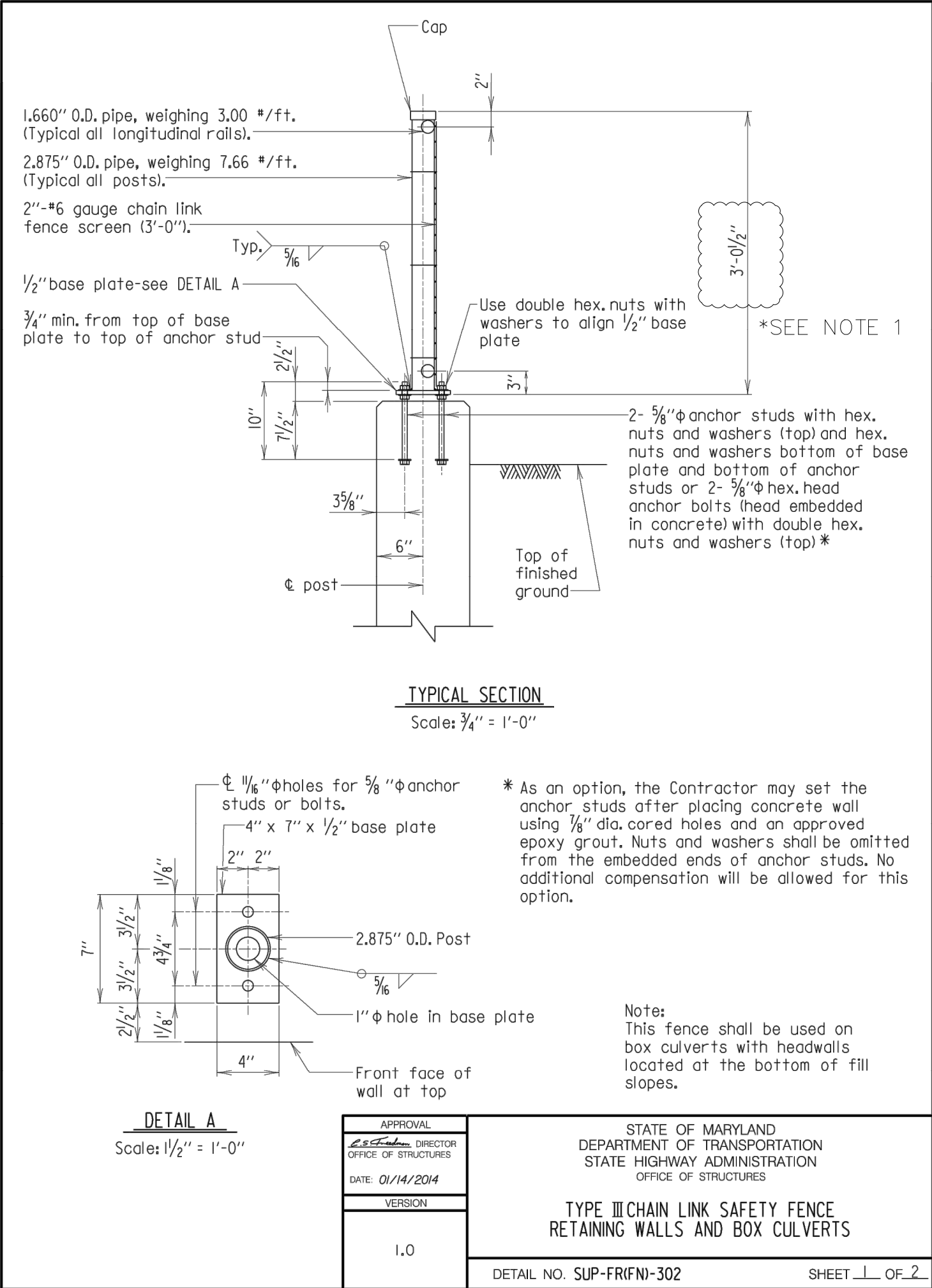


GENERAL NOTES

- Specifications: Latest SHA Specifications and Special Provisions for materials and construction, Latest AASHTO Standard Specifications for Highway Bridges for design.
- Materials: Posts and rails shall conform to ASTM F-1083, Schedule 80. Fabric shall be 6 gauge, 2" PVC coated mesh conforming to 914.01.
- All posts, braces, fittings and hardware shall be PVC coated. Coating shall conform to 914.03 except that nuts, bolts and washers shall also be PVC coated and touched up after installation.
- All plates shall be steel conforming to ASTM A 709 Grade 36.
- Anchor studs or anchor bolts shall conform to ASTM A 276, Type 430 or Type 304 stainless steel annealed, hot-finished, ultimate strength 70 000 psi min., 20% min. elongation. Threads may be rolled or cut.
- Epoxy grout for anchor studs in cored holes shall conform to 902.11(d).
- PVC color for all elements of fence shall be black unless otherwise noted.
- Construction: All longitudinal rails shall be parallel to top of wall.
- All posts shall be set normal to top of wall for roadway grades 6% or less. For grades over 6% posts shall be set plumb.
- The chain link fence shall be true to line, taut, tight fit to top of wall (1/2" maximum gap) and shall comply with the best practice for fence construction of this type.
- Post and rails shall be permanently positioned before fabric is placed.
- For post spacing see pertinent structure sheets.
- Precoated longitudinal rails, if cut, shall have the cut end coated with PVC touch up material supplied by the manufacturer prior to erection.
- If contractor elects to place anchor studs after placing concrete wall, newly placed rebar shall be located so that coring does not damage same, all holes shall be cored (not drilled) and the diameter of the cored holes for the anchor studs shall be 1/8".
- The furnishing, fabricating, erecting, etc., of all new chain link fence on the retaining wall or culvert headwalls and wing walls, complete in place, will not be measured for payment but all costs thereof shall be included in the Contract lump sum prices for the pertinent Retaining Wall or Box Culvert Items.
- Any defects uncovered by the inspection of welds on base plates and poles shall be repaired or replaced by new members at no additional cost to the Administration.
- Measurement and Payment:

APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
DATE: 07/24/2001	
VERSION	CHAIN LINK SAFETY FENCE RETAINING WALLS AND BOX CULVERTS GENERAL NOTES
I.O	DETAIL NO. SUP-FRIFN-301

SUPER FENCE/RAILING



ST-11 FENCE DETAILS
STRUCTURE PLANS
GOOD HOPE ROAD
SHARED USE PATH

DATUM: NAD 83(2011) HORIZ
NAVD 88 VERT
SCALE: AS NOTED
DATE: DECEMBER 2021

Project No. : 501902 SHEET 97 of 135

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

MANPCPC PERMIT NO. 2020-034

PARK J33

REVIEWED BY: Brian Lewandowski

APPROVED BY: [Signature]

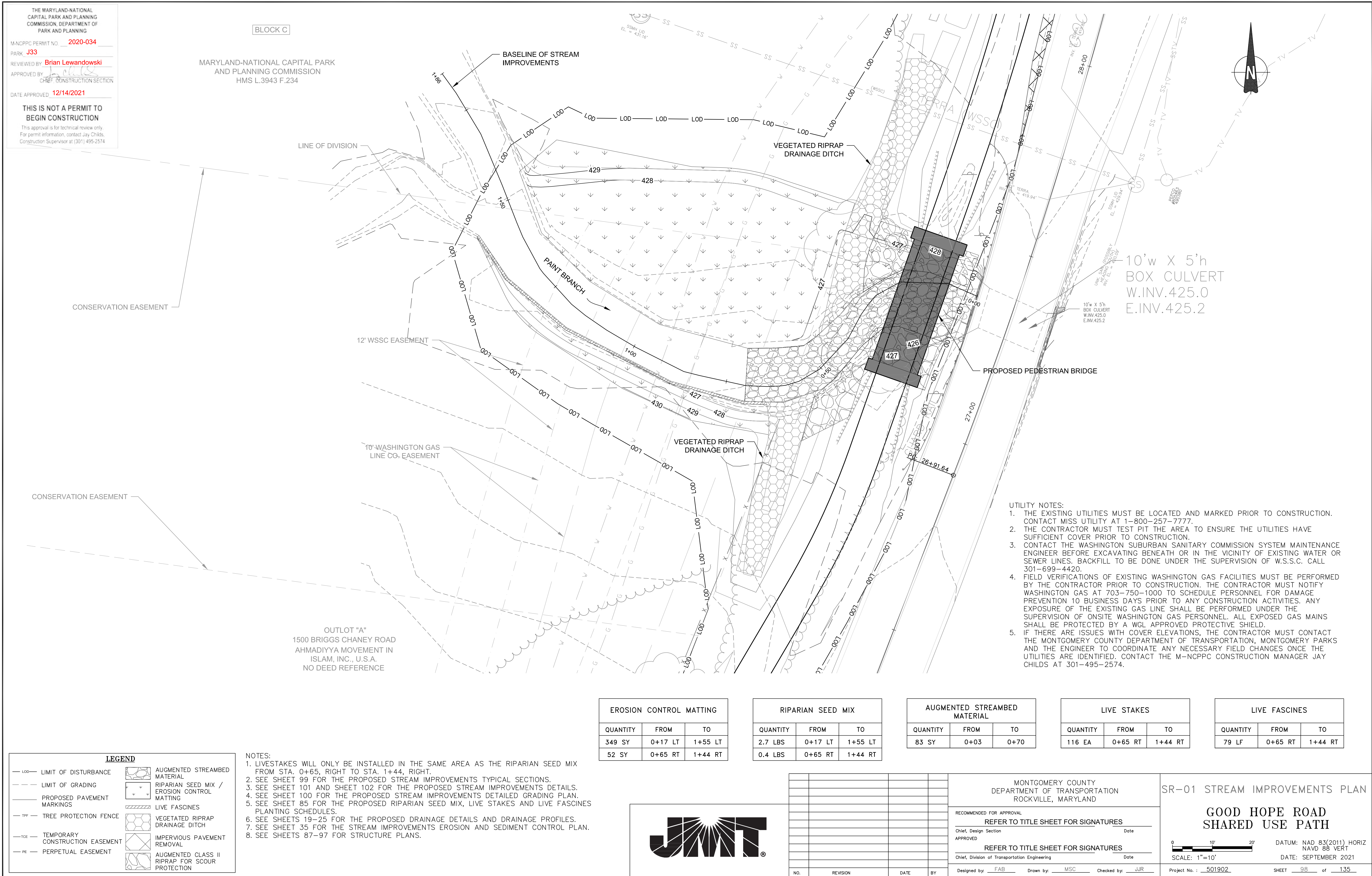
CHIEF, CONSTRUCTION SECTION

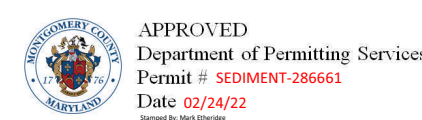
DATE APPROVED: 12/14/2021

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Construction Supervisor at (301) 495-2574

RJM ENGINEERING





THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. **2020-034**

PARK **J33**

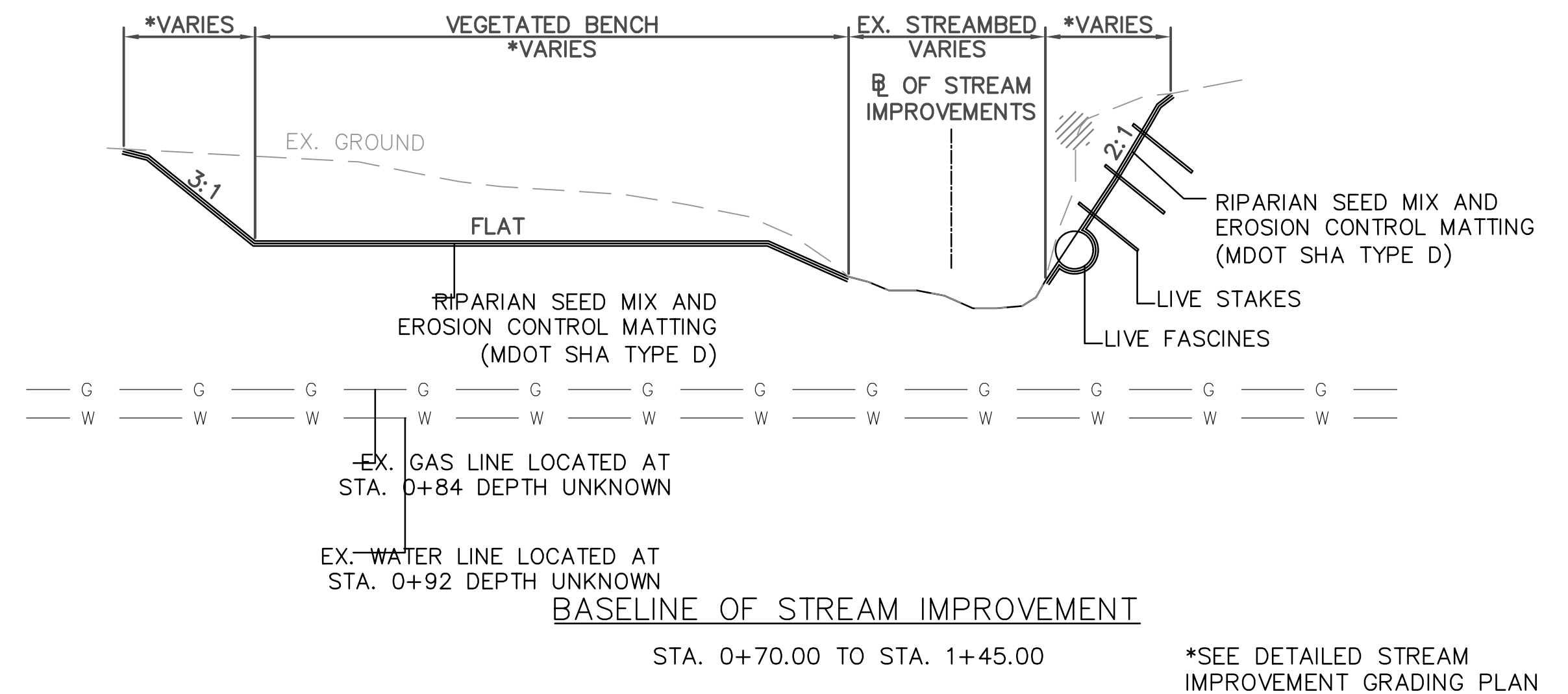
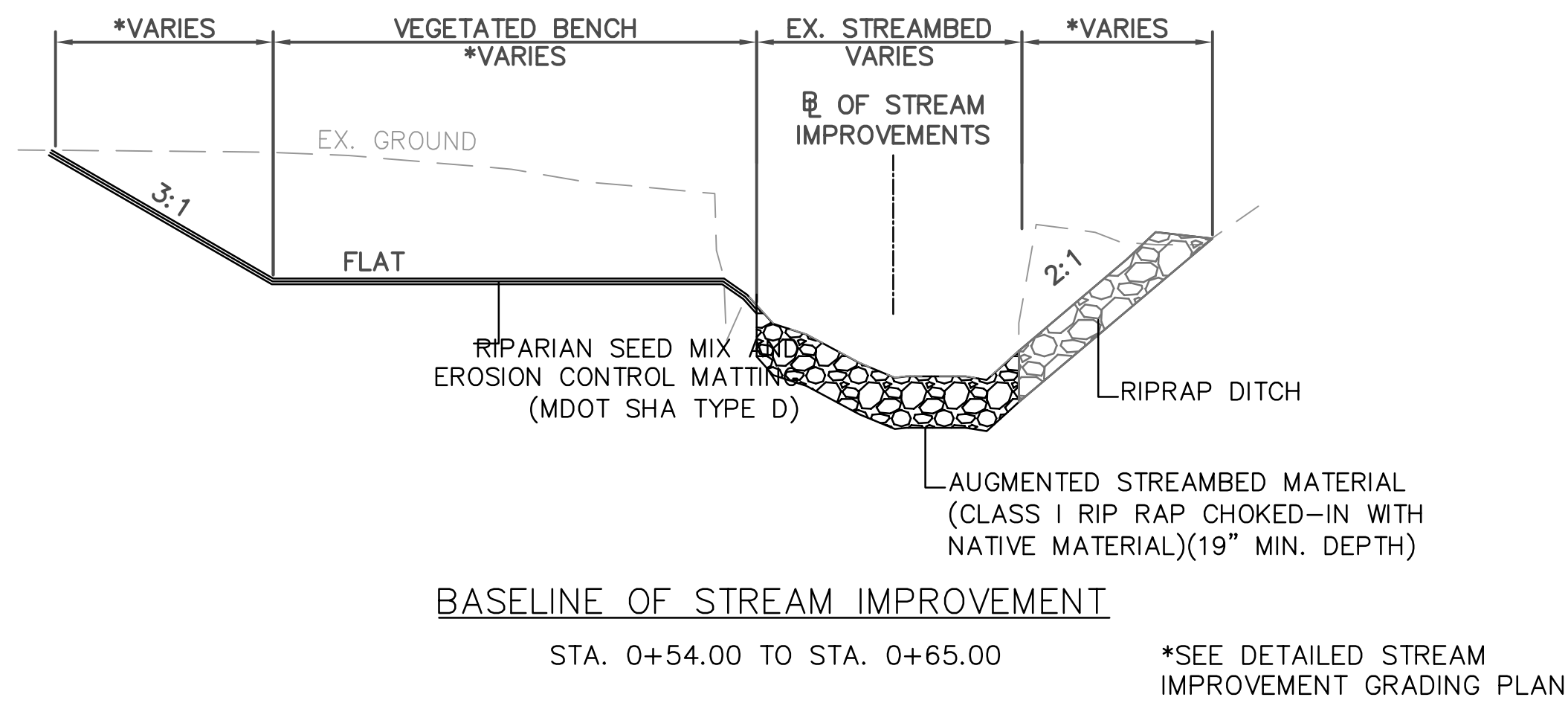
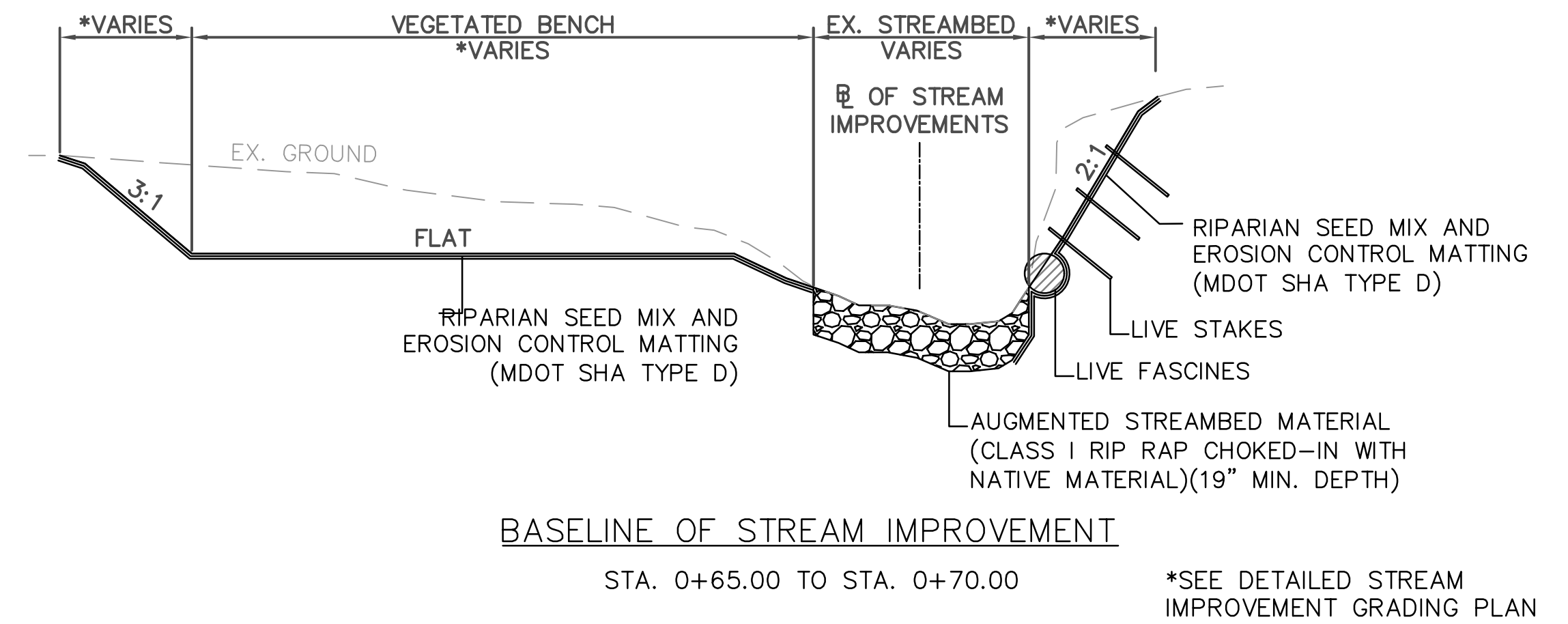
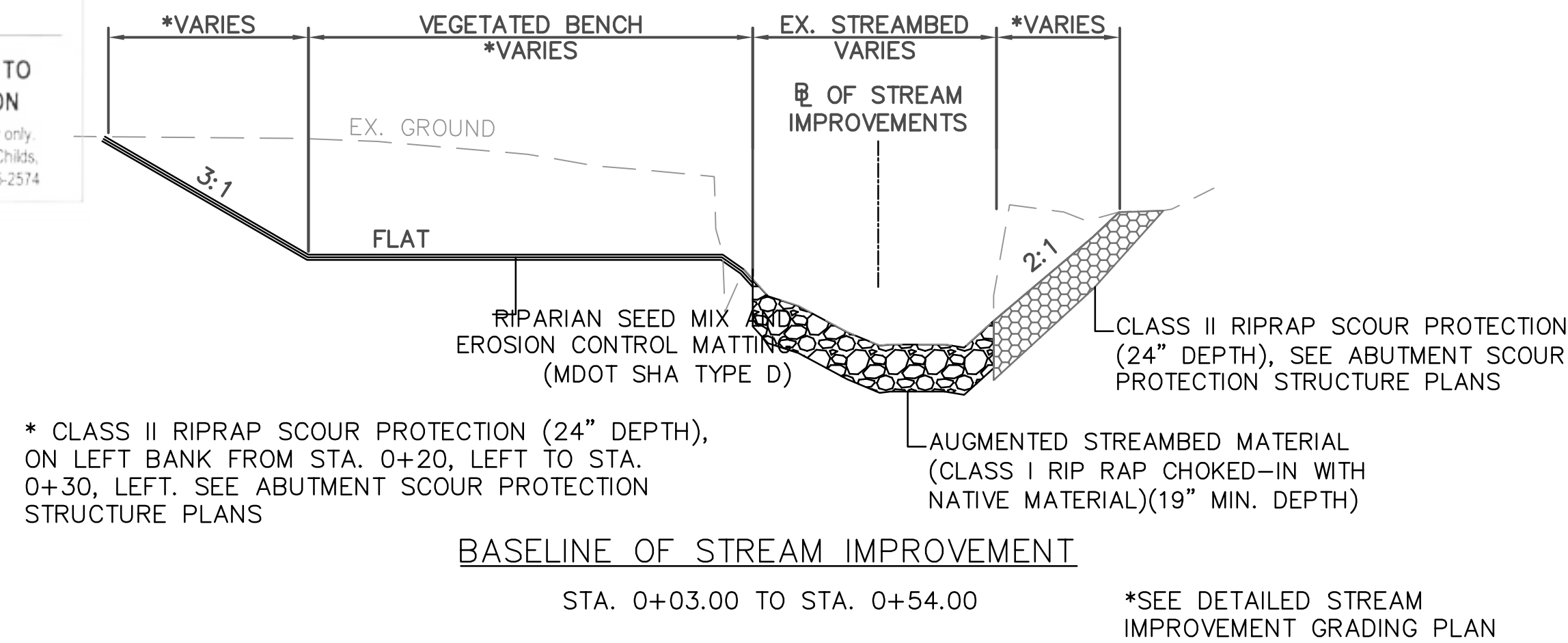
REVIEWED BY **Brian Lewandowski**

APPROVED BY **CHIEF, CONSTRUCTION SECTION**

DATE APPROVED **12/14/2021**

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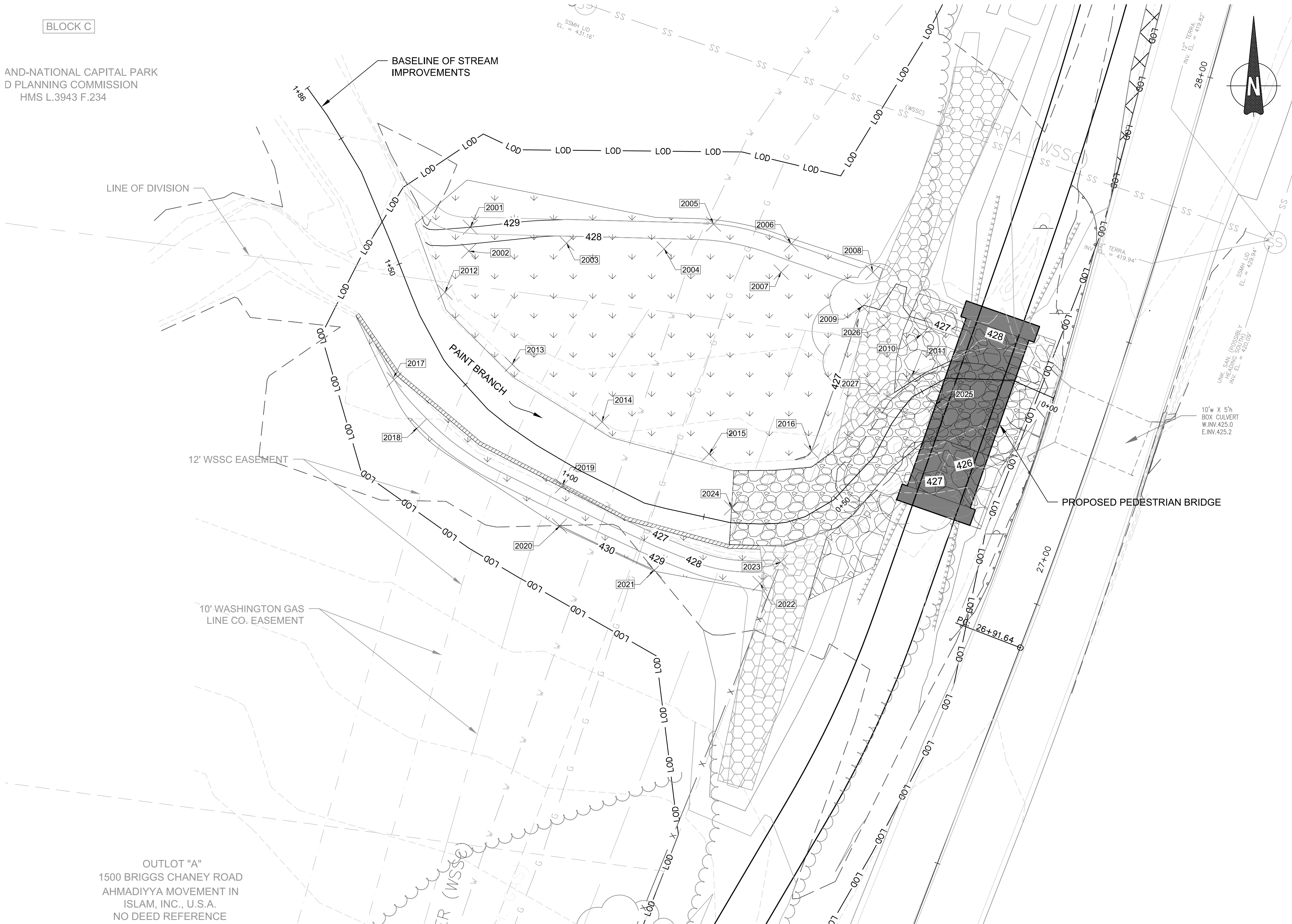
- UTILITY NOTES:
1. THE EXISTING UTILITIES MUST BE LOCATED AND MARKED PRIOR TO CONSTRUCTION. CONTACT MISS UTILITY AT 1-800-257-7777.
 2. THE CONTRACTOR MUST TEST PIT THE AREA TO ENSURE THE UTILITIES HAVE SUFFICIENT COVER PRIOR TO CONSTRUCTION.
 3. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER THE SUPERVISION OF W.S.S.C. CALL 301-699-4420.
 4. FIELD VERIFICATIONS OF EXISTING WASHINGTON GAS FACILITIES MUST BE PERFORMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR MUST NOTIFY WASHINGTON GAS AT 703-750-1000 TO SCHEDULE PERSONNEL FOR DAMAGE PREVENTION 10 BUSINESS DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY EXPOSURE OF THE EXISTING GAS LINE SHALL BE PERFORMED UNDER THE SUPERVISION OF ONSITE WASHINGTON GAS PERSONNEL. ALL EXPOSED GAS MAINS SHALL BE PROTECTED BY A WGL APPROVED PROTECTIVE SHIELD.
 5. IF THERE ARE ISSUES WITH COVER ELEVATIONS, THE CONTRACTOR MUST CONTACT THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, MONTGOMERY PARKS AND THE ENGINEER TO COORDINATE ANY NECESSARY FIELD CHANGES ONCE THE UTILITIES ARE IDENTIFIED. CONTACT THE M-NCPPC CONSTRUCTION MANAGER JAY CHILDS AT 301-495-2574.



							MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		SR-02 STREAM IMPROVEMENTS TYPICAL SECTIONS
							RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES _____ Chief, Design Section _____ Date _____ APPROVED REFER TO TITLE SHEET FOR SIGNATURES _____ Chief, Division of Transportation Engineering _____ Date _____		GOOD HOPE ROAD SHARED USE PATH DATUM: NAD 83(2011) HORIZ NAVD 88 VERT DATE: SEPTEMBER 2021
NO.	REVISION	DATE	BY				Designed by: FAB Drawn by: MSC Checked by: JUR	Project No.: 501902	SHEET 99 of 135

BLOCK C

AND-NATIONAL CAPITAL PARK
D PLANNING COMMISSION
HMS L.3943 F.234



STREAM GRADING POINT TABLE				
POINT	EASTING	NORTHING	ELEVATION	NOTE
2001	1317754.9047	524121.8958	429.0	
2002	1317754.6142	524117.5902	427.8	TOE OF SLOPE
2003	1317772.2399	524119.0697	427.6	TOE OF SLOPE
2004	1317789.8300	524118.0272	427.4	TOE OF SLOPE
2005	1317798.7267	524122.5136	429.0	
2006	1317812.7349	524118.9333	429.0	
2007	1317810.9220	524113.8475	427.2	TOE OF SLOPE
2008	1317827.4557	524113.8220	429.0	
2009	1317825.5741	524107.6623	427.0	TOE OF SLOPE
2010	1317836.1867	524102.5846	426.6	TOE OF SLOPE
2011	1317834.5028	524095.0583	426.6	
2012	1317750.3294	524110.1554	427.8	
2013	1317762.4415	524097.2538	427.6	
2014	1317778.6250	524086.8332	427.4	
2015	1317797.9637	524081.0576	427.2	
2016	1317816.3938	524081.5918	427.0	
2017	1317741.0308	524094.7135	428.0	
2018	1317745.4143	524085.8527	429.0	
2019	1317771.4829	524075.3618	427.0	
2020	1317771.0727	524068.0744	430.0	
2021	1317788.0334	524060.1638	430.0	
2022	1317807.1341	524057.7275	429.0	
2023	1317810.9114	524061.5507	427.0	
2024	1317802.0027	524071.3421	425.6	AUGMENTED STREAMBED MATERIAL
2025	1317838.7814	524089.8993	424.1	AUGMENTED STREAMBED MATERIAL
2026	1317829.4009	524104.2202	426.6	VEGETATED RIPRAP
2027	1317827.3542	524093.0633	426.6	VEGETATED RIPRAP

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK J33

REVIEWED BY Brian Lewandowski

APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section Date

APPROVED

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering Date

Designed by: FAB Drawn by: MSC Checked by: JUR

SR-03 DETAILED STREAM
IMPROVEMENTS GRADING PLAN
**GOOD HOPE ROAD
SHARED USE PATH**



SCALE: 1"=10'

DATUM: NAD 83(2011) HORIZ

NAVD 88 VERT

DATE: SEPTEMBER 2021

Project No. : 501902

SHEET 100 of 135

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK J33

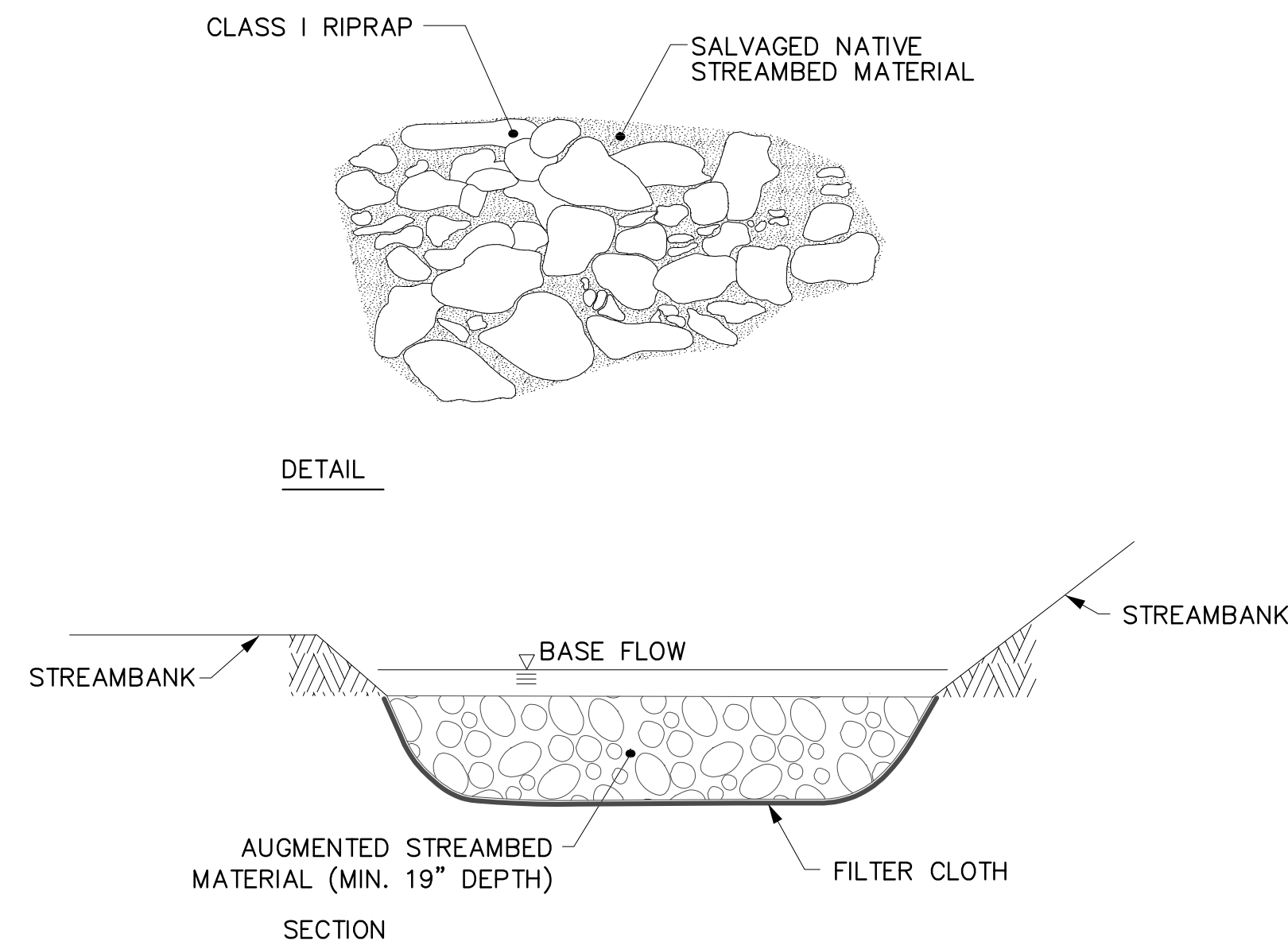
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DATE APPROVED 12/14/2021

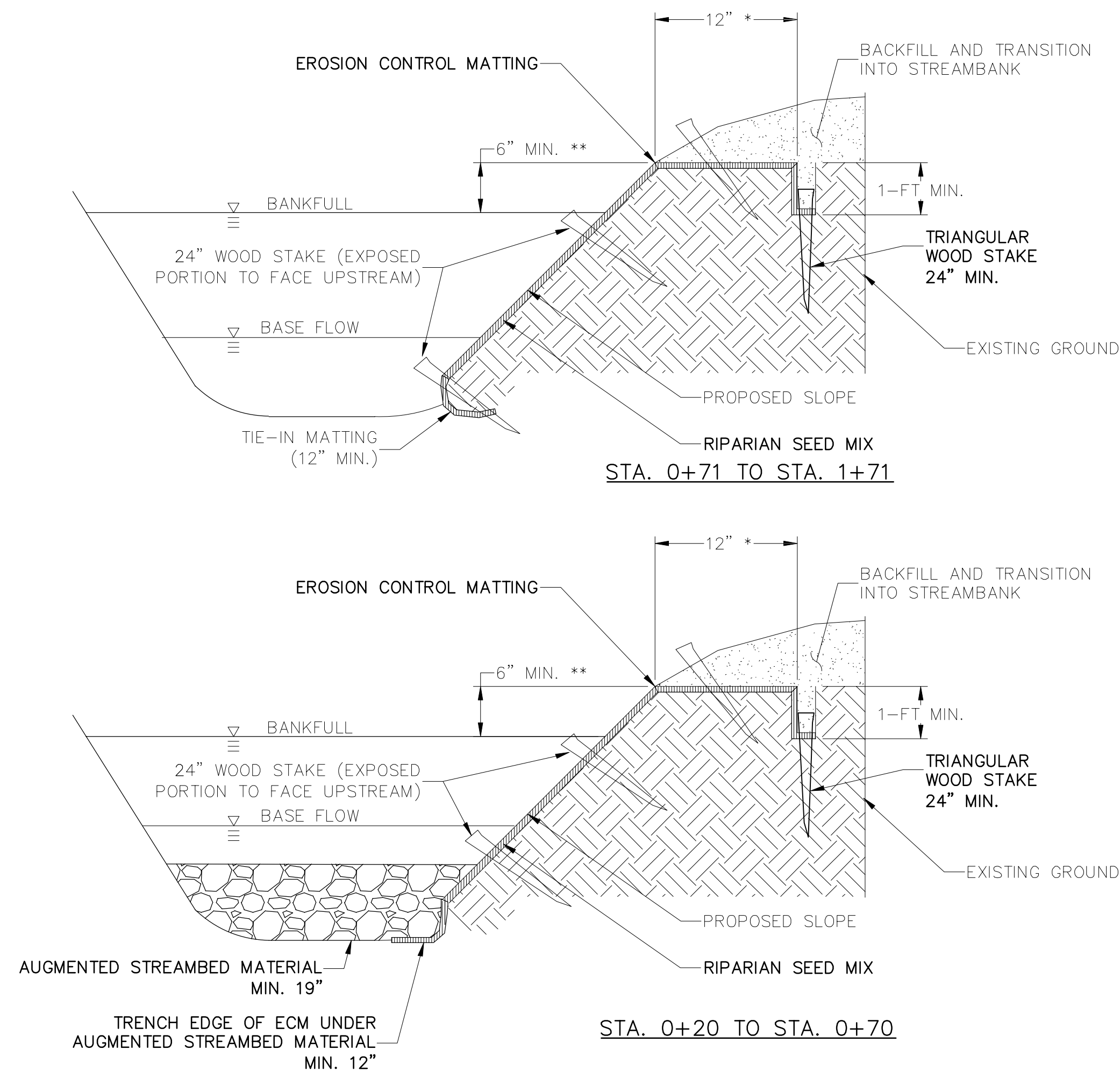
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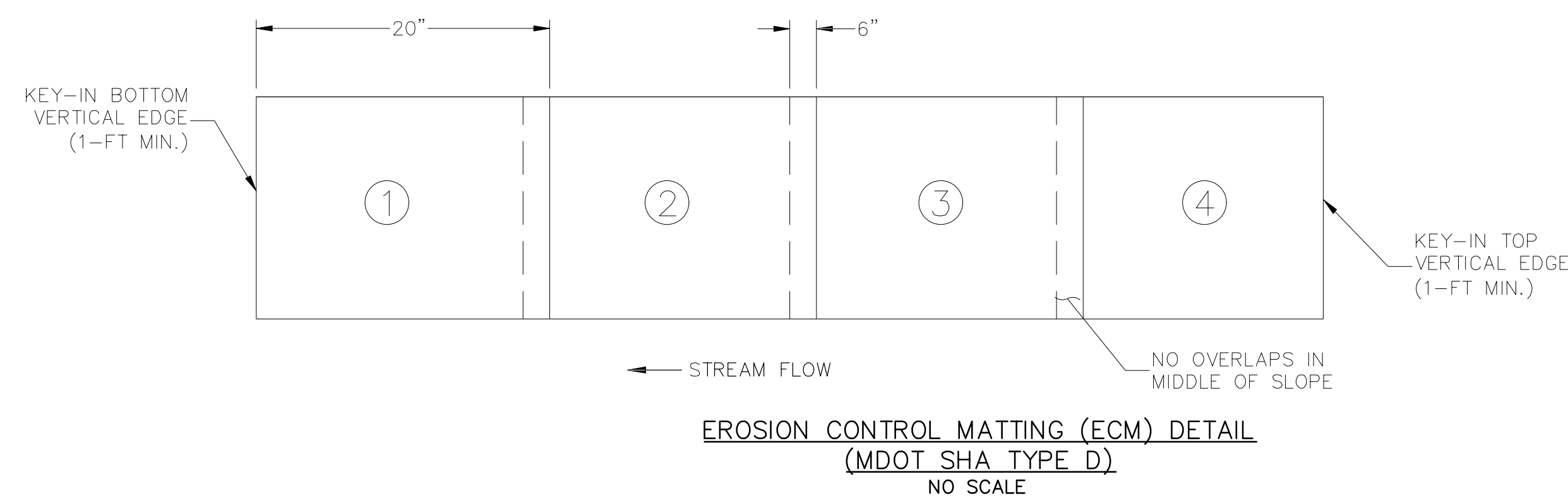
- NOTES:**
1. MIX SHALL CONSIST OF 70% CLASS I RIPRAP AND 30% SALVAGED NATIVE STREAMBED MATERIAL.
 2. IF THE AMOUNT OF SALVAGED NATIVE STREAMBED MATERIAL ON-SITE IS NOT SUFFICIENT, MDOT SHA BANK RUN GRAVEL MAY BE SUBSTITUTED.
 3. THE AUGMENTED STREAMBED MATERIAL SHALL BE INSTALLED TO A MINIMUM DEPTH OF 19 INCHES BELOW THE EXISTING STREAMBED ELEVATION.
 4. THE AUGMENTED STREAMBED MATERIAL SHALL BE ROCK OF NATURAL COLOR (I.E. BROWN, GRAY, TAN). WHITE STONE WILL NOT BE PERMITTED. STONE OF SERPENTINE ORIGIN WILL NOT BE PERMITTED.
 5. GEOTEXTILE FILTER CLOTH MUST FIRST BE PLACED UNDER THE AREA TO RECEIVE THE AUGMENTED STREAMBED MATERIAL AND TRIMMED FLUSH WITH THE STREAMBED ELEVATION UPON COMPLETION.
 6. THE AUGMENTED STREAMBED MATERIAL SHALL BE INSTALLED IN 2 LIFTS OF APPROXIMATELY 9.5 INCHES. EACH LIFT SHALL BE COMPACTED AND WASHED SEVERAL TIMES. ERODED MATERIALS SHALL BE REPLACED. THE ENGINEER MUST APPROVE FINAL ACCEPTANCE.
 7. THE FINISHED INSTALLATION OF THE AUGMENTED STREAMBED MATERIAL SHALL MATCH THE ORIGINAL SLOPE OF THE STREAMBED.
 8. SEE THE EROSION CONTROL MATTING (ECM) DETAILS FOR SECURING THE ECM WITHIN THE AUGMENTED RIFFLE MATERIAL.

AUGMENTED STREAMBED MATERIAL DETAILS
NO SCALE



- NOTES:**
1. BEGIN AT THE BOTTOM OF THE SLOPE, WORKING FROM DOWNSTREAM UP, AND ANCHOR FIBER MATTING IN A 12" DEEP INITIAL ANCHOR TRENCH. BACKFILL TRENCH AND TAMP EARTH FIRMLY.
 2. OVERLAP EDGES OF ADJACENT PARALLEL ROLLS 6" AND ANCHOR AT 12" CENTERS WITH THE UPPER ROLL OVERLAPPING THE TOP OF THE LOWER ROLL.
 3. WHEN FIBER MAT MUST BE SPLICED, PLACE END OVER END (SHINGLE STYLE IN DIRECTION OF FLOW) WITH 12" OVERLAP AND ANCHOR WITH WOOD STAKES AT 12" CENTERS. ADDITIONAL FASTENING MAY BE REQUIRED WHERE MATTING IS CUT TO INSTALL PLANTINGS.
 4. LAY FIBER MAT LOOSELY AND ANCHOR SUFFICIENTLY TO MAINTAIN DIRECT CONTACT WITH THE SOIL – DO NOT STRETCH.
 5. FOR SLOPES 2:1 AND STEEPER USE A MINIMUM OF (3) 24-INCH WOOD STAKES PER SQUARE YARD AND FOR SLOPES FLATTER THAN 2:1 USE A MINIMUM OF (2) 24-INCH WOOD STAKES PER SQUARE YARD. PROVIDE ADDITIONAL STAKING ALONG CHANNEL BOTTOM WHERE ECM FORMS TOE OF SLOPE.
 6. WOOD STAKES SHALL BE ANGLED SUCH THAT EXPOSED PORTION (2"-4") FACES UPSTREAM.
 7. ANCHOR, FILL, AND COMPACT END OF FIBER MATTING IN 12"x6" TERMINAL ANCHOR TRENCH (MIRROR IMAGE OF INITIAL TRENCH).
 - * 8. ANCHORING TENDENCIES TO BE REDUCED IN AREAS OF NATURAL RESOURCES TO BE PROTECTED.
 - ** 9. EROSION CONTROL MATTING MAY BE EXTENDED UP STREAM BANK AS DIRECTED.
 10. WOOD STAKES SHALL BE UNTREATED COMMON SPRUCE-PINE-FIR (SPF) DIMENSIONAL LUMBER (2"x4"), WITH A NOMINAL TOP DIMENSION OF 1-1/2 BY 3-1/2". CUT INTO WEDGES A MINIMUM OF 24" LONG AND INSTALLED 24" ON-CENTER.
 11. ALL EROSION CONTROL MATTING SHALL BE 100% BIODEGRADABLE. THE USE OF PLASTIC MATERIALS OR PLASTIC FIBERS ARE NOT PERMITTED ON MNCPPC PARK PROPERTY.

- NOTES:
1. APPLY AND RAKE IN THE RIPARIAN SEED MIX PRIOR TO THE INSTALLATION OF THE EROSION CONTROL MATTING.
 2. RIGHT STREAMBANK DETAILS AS SHOWN ABOVE ARE THE MIRROR REVERSE OF THE LEFT STREAMBANK.
 3. SEE SHEET 65 FOR THE RIPARIAN SEED MIX SPECIFICATIONS.

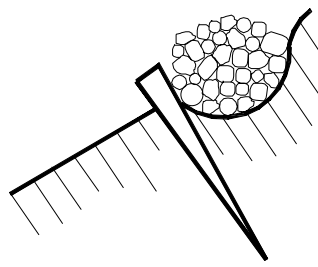


					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	SR-04 STREAM IMPROVEMENTS DETAILS 1					
					RECOMMENDED FOR APPROVAL	GOOD HOPE ROAD SHARED USE PATH					
					REFER TO TITLE SHEET FOR SIGNATURES						
					Chief, Design Section _____ Date _____						
					APPROVED						
					REFER TO TITLE SHEET FOR SIGNATURES						
					Chief, Division of Transportation Engineering _____ Date _____	DATUM: NAD 83(2011) HORIZ NAVD 88 VERT					
						SCALE: NOT TO SCALE DATE: SEPTEMBER 2021					
NO.	REVISION	DATE	BY		Designed by: <u>FAB</u> Drawn by: <u>MSC</u> Checked by: <u>JJR</u>	Project No.: <u>501902</u>		SHEET	<u>101</u>	of	<u>135</u>

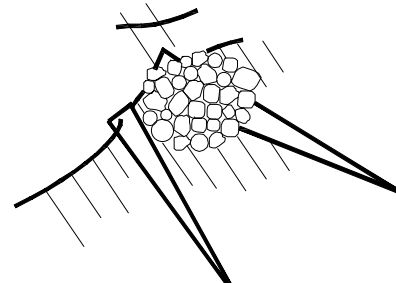


CONSTRUCTION NOTES: INSTALLATION BEGINS AT THE BOTTOM OF THE SLOPE AND PROCEEDS FROM STEP 1 THROUGH STEP 5 ADAPTED FROM LEISER (1983)

11



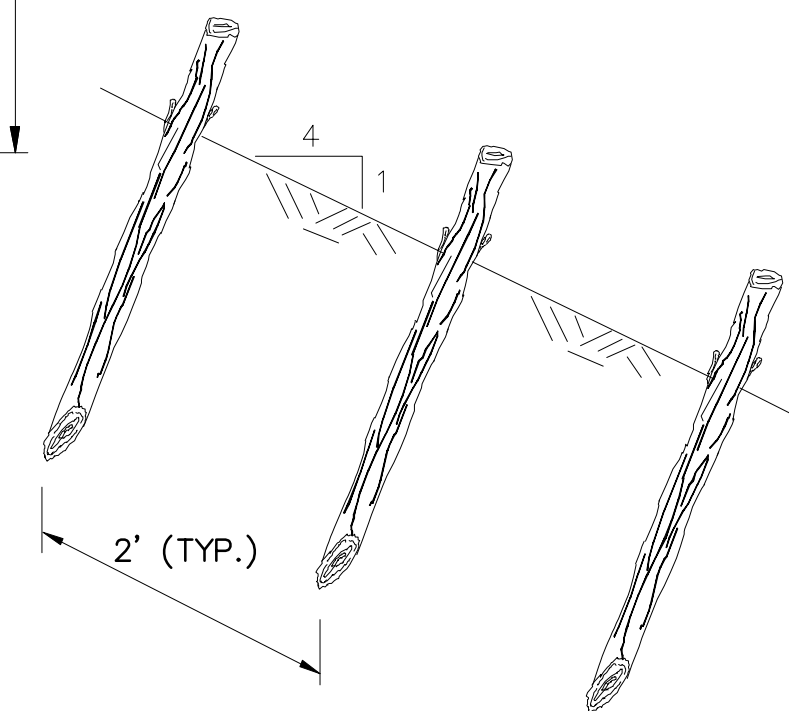
STEP 3: PLACE BUNDLES IN TRENCH



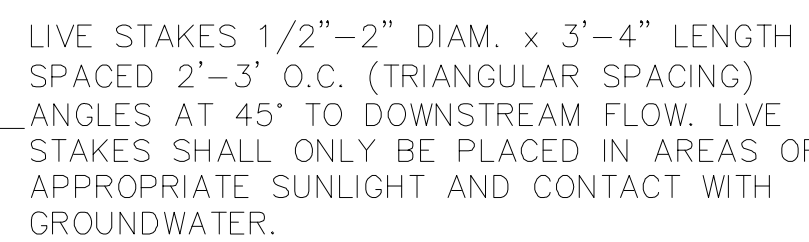
STEP 5: TAMP SOIL INTO AND ALONG SIDES OF BUNDLE LEAVING THE TOP 2 INCHES (5 CM) EXPOSED TO PROMOTE GROWTH

1. LIVE FASCINE BUNDLES SHALL BE 6' TO 8' IN LENGTH WITH A DIAMETER OF 4 TO 10 INCHES.
2. LIVE FASCINE BUNDLES SHALL CONSIST OF AN EQUAL QUANTITY OF SPECIES.
3. LIVE FASCINES SHALL BE SOAKED A MINIMUM OF 24 HOURS BEFORE INSTALLATION.
4. SEE SHEET 65 FOR THE LIVE FASCINE PLANTING SCHEDULE.

LIVE FASCINES DETAIL
NO SCALE



SECTION VIEW



- SOAK LIVE STAKES FOR 24 HOURS AND RECUT ENDS AT 45° ANGLES PRIOR TO INSTALLATION.
- USE 1/2"–3/4" REBAR FOR PILOT HOLES PRIOR TO DRIVING LIVE STAKES INTO GROUND.
- DRIVE LIVE STAKE 3/4 OF ITS LENGTH INTO THE GROUND.
- RECUT ANY LIVE STAKE TIPS DAMAGED BY INSTALLATION
- STAKES TO BE 1/2" TO 1" IN DIAMETER, 3' TO 4' LONG.



SHEET 102 of 135

THE MARYLAND-NATIONAL
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M-NCPPC PERMIT NO. **2020-034**

PARK **J33**

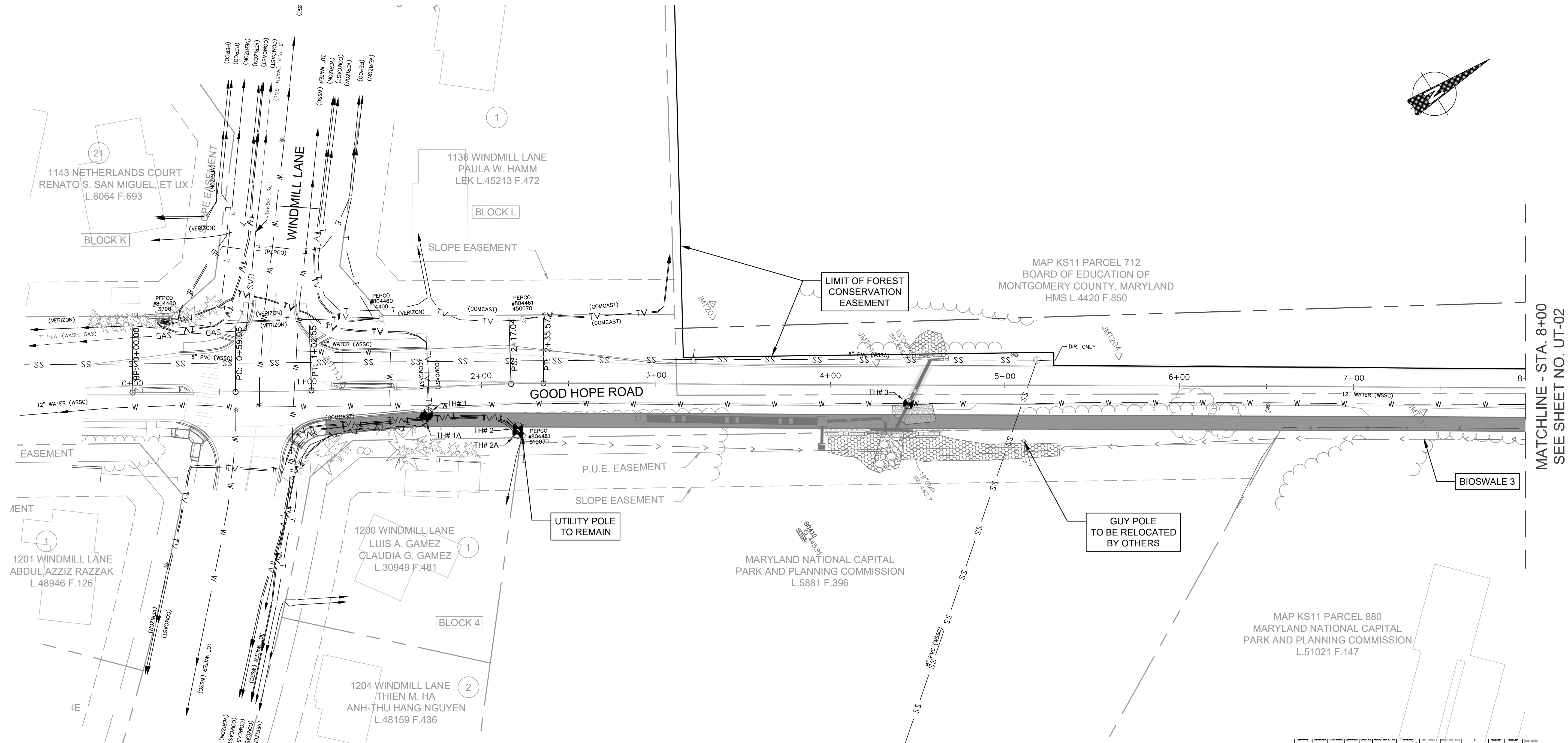
REVIEWED BY **Brian Lewandowski**

APPROVED BY **[Signature]**
CHIEF, CONSTRUCTION SECTION

DATE APPROVED **12/14/2021**

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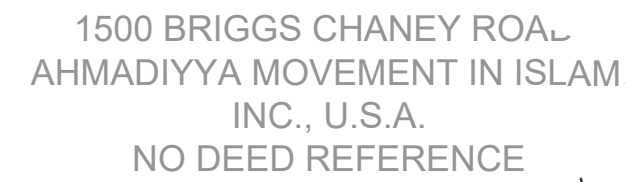


MATCHLINE - STA. 8+00
SEE SHEET NO. UT-02

NO.	REVISION	DATE	BY
1	ISSUED	12/14/2021	JUR

STRUCTURE SCHEDULE - STA. 2+00 TO STA. 10+00												
	STRUCTURE	APPROVED	DATE	DEPTH	OFFSET	REMARKS	STA. NO.	TYPE	CONTRACT	PROJ. IN	SHORT IN	DEPTH IN
Point 1	1A-1	12/14/2021	12/14/2021	12.0	0.0	12" WATER (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-2	12/14/2021	12/14/2021	12.0	0.0	8" PVC (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-3	12/14/2021	12/14/2021	12.0	0.0	3" PLA. (WASH. GAS)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-4	12/14/2021	12/14/2021	12.0	0.0	12" WATER (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-5	12/14/2021	12/14/2021	12.0	0.0	8" PVC (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-6	12/14/2021	12/14/2021	12.0	0.0	3" PLA. (WASH. GAS)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-7	12/14/2021	12/14/2021	12.0	0.0	12" WATER (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-8	12/14/2021	12/14/2021	12.0	0.0	8" PVC (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-9	12/14/2021	12/14/2021	12.0	0.0	3" PLA. (WASH. GAS)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
	1A-10	12/14/2021	12/14/2021	12.0	0.0	12" WATER (WSSC)	2+00	1	COMCAST	12/14/2021	12/14/2021	12.0
1	521744.2043	1316872.1767	2.22		COMCAST							
2A	521782.1356	1316908.7686	1.90		COMCAST							
2	521783.9525	1316906.1675	1.60		VERIZON							
3	521980.4740	1317013.9393	9.05		WATER							

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Utility Test Plts				
Point #	Northing	Easting	Depth	Description
4A	522452.7366	1317324.2338	0.00	N.U.F.
4	522453.2524	1317322.9878	1.61	WATER
5	522946.6220	1317489.0984	2.78	GAS
6	522913.4567	1317476.9489	5.60	VERIZON

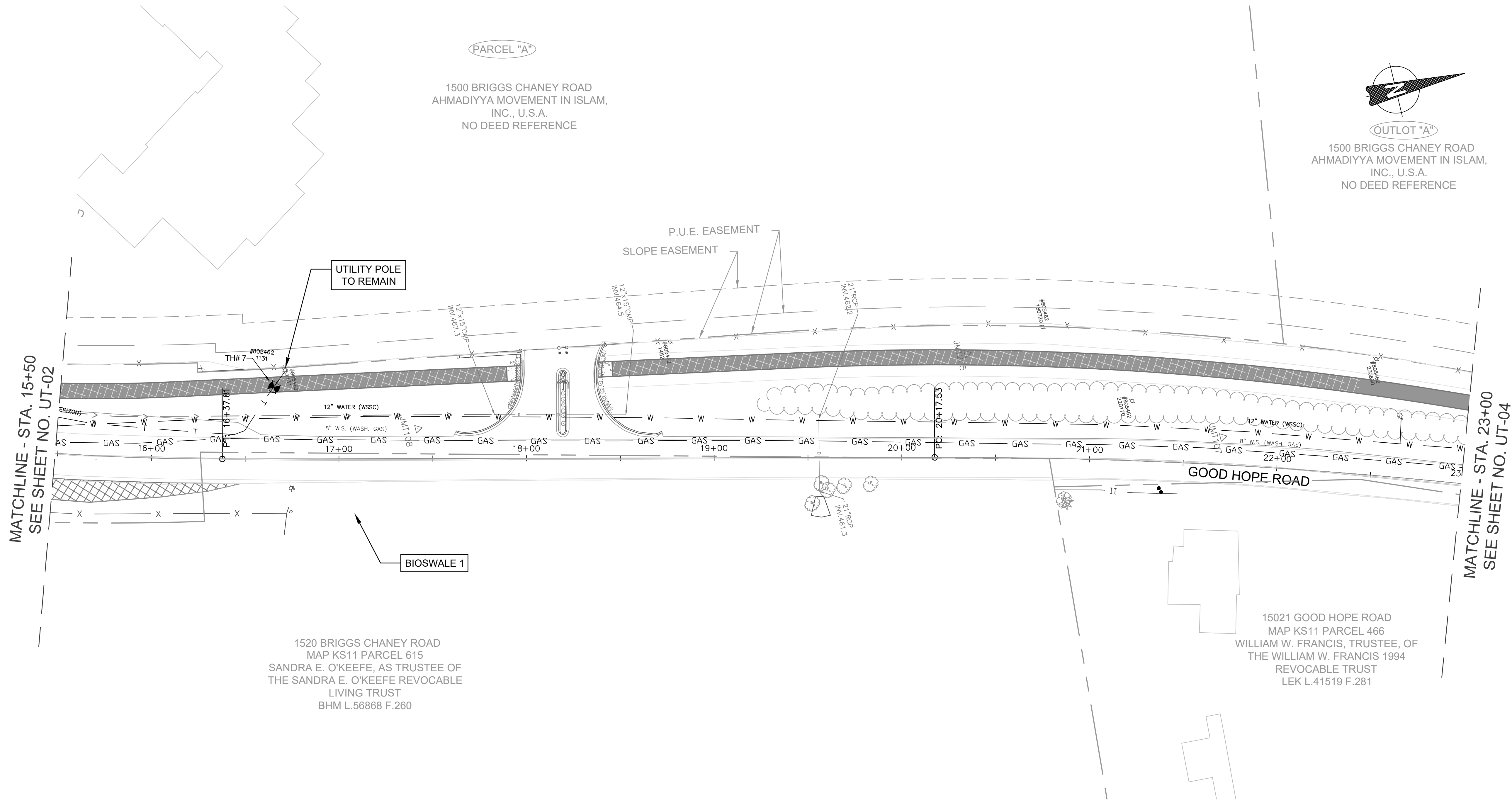
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
REFER TO TITLE SHEET FOR SIGNATURES			
Chief, Design Section			Date
APPROVED			
REFER TO TITLE SHEET FOR SIGNATURES			
Chief, Division of Transportation Engineering			Date
Designed by: <u>ADH</u>	Drawn by: <u>MED</u>	Checked by: <u>JJR</u>	

DATUM: NAD 83(2011) HORIZ
NAVD 88 VERT
DATE: DECEMBER 2021

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Utility Test Pits				
Point #	Northing	Easting	Depth	Description
7	523075.1518	1317517.6389	3.86	VERIZON

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.

[illegible]

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK J33

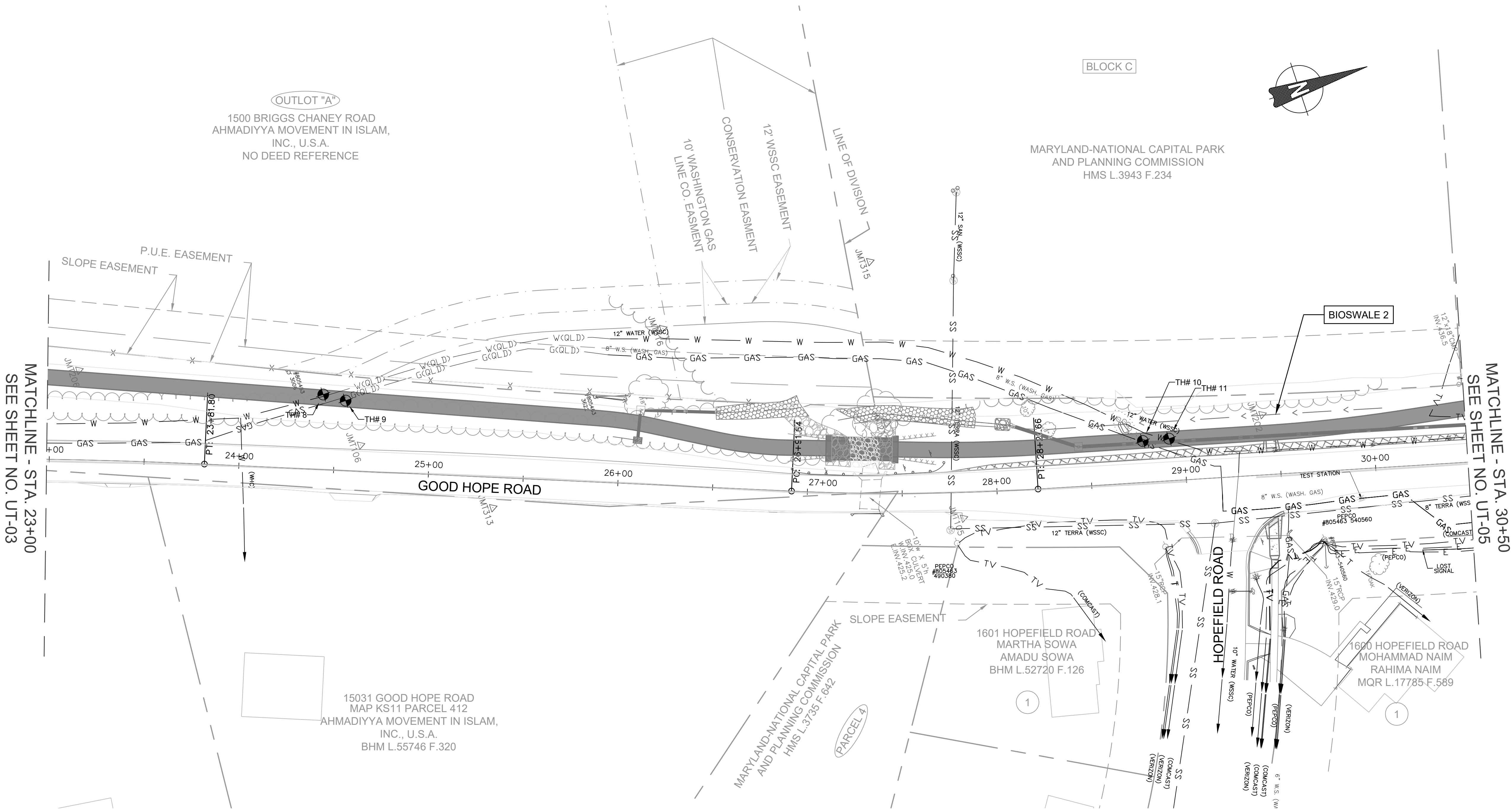
REVIEWED BY Brian Lewandowski

APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

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NOTES:

1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.

2. PEDESTRIAN BRIDGE INSTALLATION WORK MUST REMAIN MINIMUM 10 FEET FROM ANY LIVE OVERHEAD WIRES. COORDINATION WITH PEPCO MAY BE REQUIRED FOR A PLANNED OUTAGE DURING THE PEDESTRIAN BRIDGE INSTALLATION. OUTAGES WILL ONLY BE PERMITTED IN SPRING OR FALL.



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				UT-04 UTILITY PLAN	
RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES				GOOD HOPE ROAD SHARED USE PATH	
Chief, Design Section APPROVED				DATE	
REFER TO TITLE SHEET FOR SIGNATURES				DATE	
Chief, Division of Transportation Engineering				DATE	
Designed by: <u>ADH</u>				Drawn by: <u>MED</u>	
Checked by: <u>JJR</u>				Project No.: <u>501902</u>	
NO. REVISION DATE BY				SHEET <u>106</u> of <u>135</u>	

THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
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M-NCPPC PERMIT NO. 2020-034

PARK J33

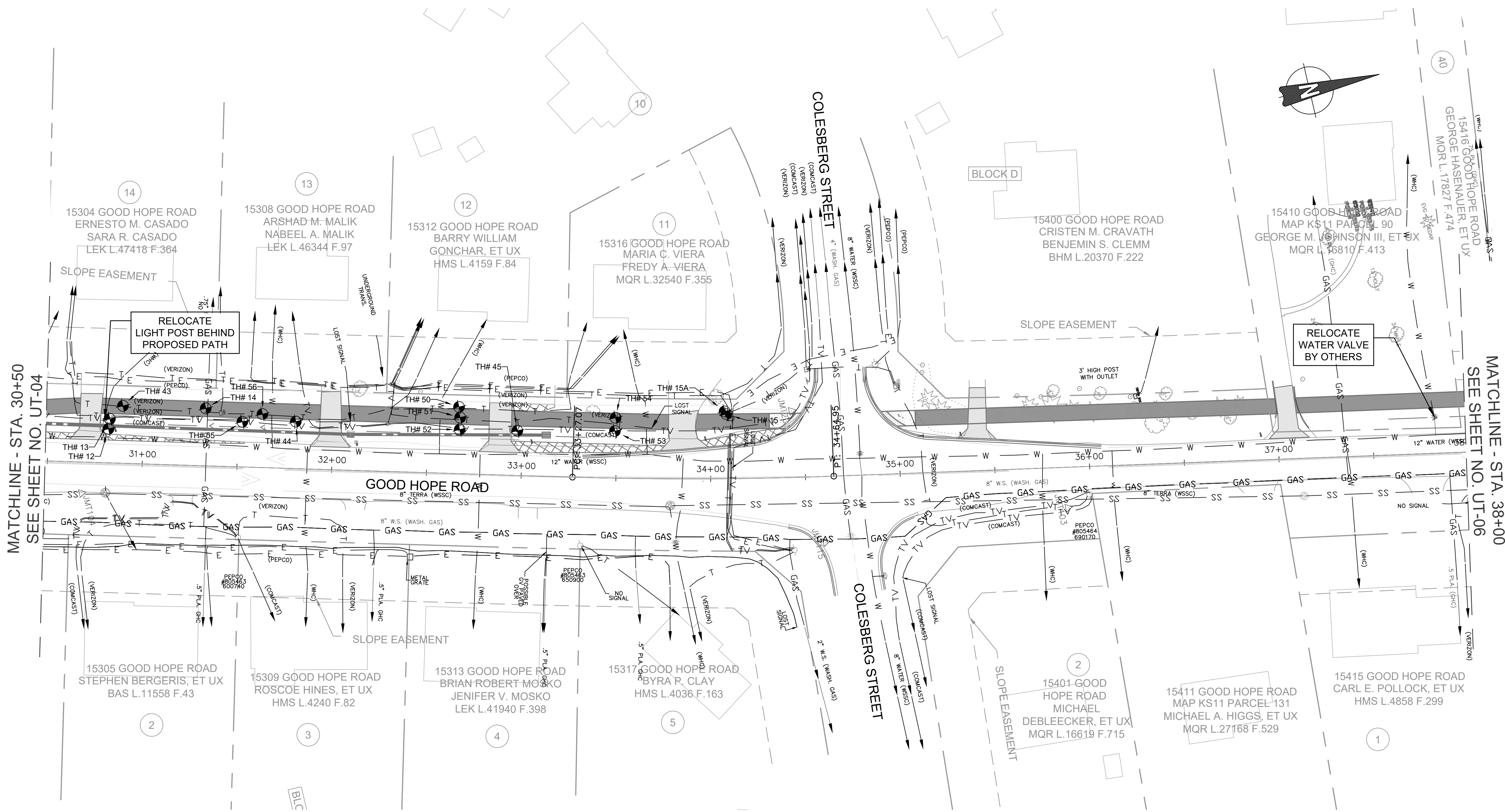
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Utility Test Pits				
Point #	Northing	Easting	Depth	Description
12	524425.7476	1317943.0805	4.54	WATER
13	524427.6393	1317938.1361	1.18	COMCAST
14	524478.1435	1317944.0879	4.00	GAS
15A	524744.4272	1318007.3959	2.04	VERIZON
15	524744.9798	1318009.0265	2.83	PEPCO
43	524435.8785	1317932.9776	0.67	VERIZON
44	524522.8687	1317961.6192	0.40	VERIZON
45	524635.6087	1317992.7033	1.60	COMCAST

Utility Test Pits				
Point #	Northing	Easting	Depth	Description
50	524608.4626	1317973.5382	0.00	N.U.F.
51	524607.7848	1317979.0883	2.65	VERIZON
52	524606.1095	1317985.2405	1.59	COMCAST
53	524685.7151	1318004.4751	1.50	COMCAST
54	524687.6414	1317997.7044	1.96	VERIZON
55	524495.3650	1317955.3764	1.38	COMCAST
56	524506.5939	1317953.8307	1.01	VERIZON

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.



NO.

REVISION

DATE

BY

RECOMMENDED FOR APPROVAL

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section

APPROVED

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering

Designed by: ADH

Drawn by: MED

Checked by: JJR

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

ROCKVILLE, MARYLAND

UT-05 UTILITY PLAN

GOOD HOPE ROAD

SHARED USE PATH

DATUM: NAD 83(2011) HORIZ

NAVD 88 VERT

SCALE: 1"=30'

DATE: DECEMBER 2021

Project No. : 501902

SHEET 107 of 135

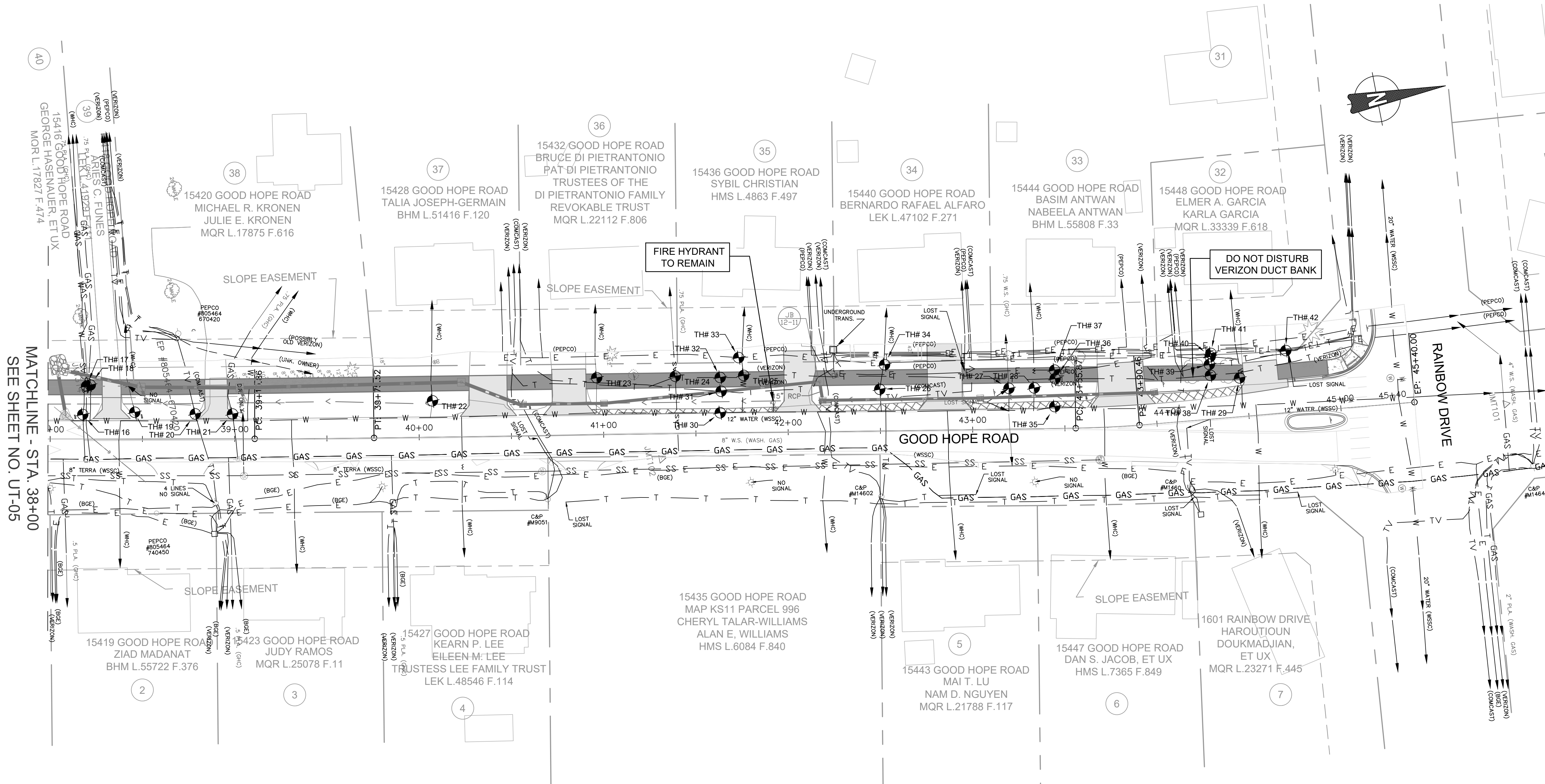
THE MARYLAND-NATIONAL
CAPITAL PARK AND PLANNING
COMMISSION, DEPARTMENT OF
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034
PARK J33
REVIEWED BY Brian Lewandowski
APPROVED BY [Signature]
CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

**THIS IS NOT A PERMIT TO
BEGIN CONSTRUCTION**

This approval is for technical review only.
For permit information, contact Jay Childs,
Construction Supervisor at (301) 495-2574



Utility Test Pits				
Point #	Northing	Easting	Depth	Description
16	525141.7141	1318107.1099	3.77	GAS
17	525146.6338	1318092.3674	2.00	GAS
18	525148.7363	1318092.1354	3.52	WATER
19	525169.6180	1318111.2047	4.40	WATER
20	525201.6259	1318118.2980	1.95	COMCAST
21	525221.4490	1318122.1616	2.65	GAS
22	525329.2355	1318135.6722	5.53	WATER
23	525419.0167	1318140.2020	4.77	WATER
24	525460.9719	1318147.4641	3.54	GAS
25	525497.4519	1318154.0357	4.43	WATER

Utility Test Pits				
Point #	Northing	Easting	Depth	Description
26	525568.4428	1318175.3704	3.68	WATER
27	525637.2921	1318188.1493	3.18	GAS
28	525650.8274	1318190.4905	3.95	WATER
29	525761.1105	1318206.2323	4.59	WATER
30	525481.1575	1318171.5053	4.34	WATER
31	525483.8394	1318160.1670	1.00	VERIZON
32	525484.7585	1318152.7200	1.09	VERIZON
33	525496.6176	1318144.0518	2.76	PEPCO
34	525573.5449	1318162.7775	0.00	N.U.F.
35	525659.7990	1318202.5264	4.65	WATER

Utility Test Pits				
Point #	Northing	Easting	Depth	Description
36	525662.8926	1318187.6680	1.45	VERIZON
37	525663.4553	1318183.0735	3.23	PEPCO
38	525745.8802	1318201.8706	1.85	VERIZON
39	525746.4291	1318195.9445	4.60	VERIZON
40	525747.6535	1318191.8648	3.59	VERIZON
41	525748.3180	1318190.2458	0.00	N.U.F.
42	525788.5247	1318196.3824	3.39	VERIZON

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.
2. UTILITY TEST PITS SHOWN ON THIS SHEET WERE COMPLETED IN FEBRUARY 2020.



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				UT-06 UTILITY PLAN			
RECOMMENDED FOR APPROVAL REFER TO TITLE SHEET FOR SIGNATURES				GOOD HOPE ROAD SHARED USE PATH			
Chief, Design Section		Date		0 30' 60'		DATUM: NAD 83(2011) HORIZ	
APPROVED		REFER TO TITLE SHEET FOR SIGNATURES		SCALE: 1"=30'		NAVD 88 VERT	
Chief, Division of Transportation Engineering		Date		Project No. : <u>501902</u>		DATE: DECEMBER 2021	
Designed by: <u>ADH</u>		Drawn by: <u>MED</u>		Checked by: <u>JJR</u>		SHEET <u>108</u> of <u>135</u>	
NO.	REVISION	DATE	BY				